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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.

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HYDROLOGIC STUDIES

COMPILATION OF RAINFALL AND RUN-OFF FROM THE WATERSHEDS OF THE TEXAS AGRICULTURAL EXPERIMENT STATION SUBSTATION NO. 7 SPUR, TEXAS 1928-38

Prepared in cooperation
with
Texas Agricultural Experiment Station

Office of Research
SCS-TP-35
June 1940

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Washington, D. C.

HYDROLOGIC STUDIES

COMPILATION OF RAINFALL AND RUN-OFF FROM THE WATERSHEDS OF THE TEXAS AGRICULTURAL EXPERIMENT STATION SUBSTATION NO. 7 SPUR, TEXAS

1928-38

By

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Prepared in cooperation
with
Texas Agricultural Experiment Station
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Office of Research
SCS-TP-35
July 1940

(4502)

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Report on Hydrologic Investigations on Small Watersheds at the Texas Agricultural Experiment Station, Substation No. 7, Spur, Texas.

I. The Experiment Station History

Soil and water conservation studies at the Spur Station were started as a result of a direct request by 18 county agents for specific information, at a meeting held in Spur in July, 1925. At a conference held at College Station, Texas, in August, 1925, attended by members of the Extension Service, Experiment Station, and teaching staff of the College, tentative plans for setting in motion the machinery for securing the information were made. During the winter of 1925-26 plans for starting the work were perfected and the actual work of establishing plots and field areas and installing equipment was started in February, 1926. Small expansions of the studies have been made each succeeding year. In May, 1936, cooperative agreements were entered into between the Texas Station and the Soil Conservation Service. The personnel at the Spur Station was enlarged and strengthened, a laboratory equipped, and field operations enlarged and refined.

Acknowledgment is made to R. E. Dickson, Superintendent of Texas Substation No. 7 and Project Supervisor, under whose direction the work has been carried on since its inception in 1926, and to C. E. Fisher, Assistant Soil Conservationist. L. L. Harrold and W. D. Potter of the Washington Office prepared the

instructions for compiling the data. L. L. Harrold and S. Norabito reviewed the data before publication.

II. Physical characteristics of the Station

The soils on the Station are the Miles and Abilene clay loams. The station area is gently sloping, with over one-half of the 414 acres having a slope less than 1 percent, with a very small part having a gradient of over 2 percent. The station is located about 1-1/2 miles west of Spur, Dickens County, Texas, at approximately 33° 28' north latitude and 100° 53' west longitude. It is gently rolling in topography having a fall of about 30 feet from the highest point at the northwest corner to the point on the eastern boundary where the drainage way leaves the station property. This distance is about 5500 feet.

III. History and description of the watersheds

The areas on which the majority of these reports are made, field areas 1, 2, 3, 5, 6, and 7 were first cultivated in 1909 and were in experimental plat work until 1924. During 1924, 1925, and 1926 there were 90 acres of cotton grown on the 100 acres in the field areas and the remaining 10 acres were used for growing feed crops.

Since beginning these studies in 1927 the field areas have been planted continuously in cotton. Two of these areas, 5 and 6, were laid out and terraces constructed in the spring of 1926. The remainder were established in the spring of 1927.

Area #1: Treatment contoured rows, 11.530 acres, Miles-Abilene clay loam, average slope 0.6 percent, maximum slope 1 percent.

Area #2: Rows up and down hill, 9.386 acres, Miles-Abilene clay loam, average slope 0.5 percent, maximum slope 0.8 percent.

Area #3: One foot fall between level terraces having one end open, 10.711 acres, Miles-Abilene clay loam, average slope 0.9 percent, maximum slope 1.3 percent.

Area #5: Two feet fall between terraces, terraces graded with a constant fall of 3 inches per hundred feet, 5.532 acres Miles-Abilene clay loam, average slope 1.6 percent, maximum slope 2 percent. The treatment of areas 5 and 6 were reversed in the spring of 1936 and level terraces were placed on this area, having a two-foot fall between terraces with one end open. In rebuilding the terraces, the size of this field area was changed to 5.807 acres.

Area #6: Two feet fall between level terraces, one end open, 6.044 acres Miles-Abilene clay loam, average slope 1.6 percent, maximum slope 2.4 percent. The treatments of areas 5 and 6 were reversed in the spring of 1936 and graded terraces with the same vertical interval (two feet) and having a fall of 3 inches per hundred feet along the terrace were installed on field 6. The area of field 6 was altered to 5.323 acres in making these terrace changes.

Area #7: Treatment level terraces with one foot vertical spacing, borders diked to hold all of the water that falls on the area, Miles-Abilene clay loam, average slope 0.3 percent, maximum slope 1 percent.

For a few of the most intense rain periods, graphs were prepared on field areas 11, 12, 14, and 15. The land comprising field areas 11 to 16, inclusive, were first put in cultivation in 1924.

Field areas 11, 12, and 13 were established in spring of 1930 and records have been kept since that time. Field areas 14, 15, and 16 were established in 1930 and records have been kept since that time. Field areas 11, 12, and 13 have been planted continuously in cotton for the period of record except 1932 when, after the cotton was hailed out, sorghums were planted. Field areas 14, 15, and 16 were planted in 1930, 1931, and 1932 in sorghums and since that time continuously in cotton.

Area #11: Treatment rows with the slope (up and down hill), Miles-Abilene clay loam average slope 0.7 percent, maximum slope 1.2 percent, area 8.699 acres.

Area #12: Treatment rows on the contour, Miles-Abilene clay loam, average slope 0.6 percent, maximum slope 1 percent, area 8.411 acres.

Area #13: Treatment level terraces with one foot vertical spacing borders diked to hold all water that falls on area, Miles-Abilene clay loam, average slope 0.7 percent, maximum slope one percent, 8.544 acres.

Area #14: Treatment rows up and down hill, average slope 0.6 percent, maximum slope 0.7 percent, Miles-Abilene clay loam, area 8.532 acres.

Area #15: Treatment rows on the contour, average slope 0.6 percent, maximum slope 0.7 percent, Miles-Abilene clay loam, area 8.505 acres.

Area #16: Treatment level terraces with one foot fall between terraces with borders diked to hold all water that falls on plat, Miles-Abilene clay loam, average slope 0.5 percent, maximum slope 0.8 percent, area 7.580 acres.

IV. Instrumentation

Rain gages. Standard and Recording. For description and history of the rain gages see table 1.

Water measuring devices.

Areas 1, 2, 3, 5, 6, 11, 12, 14, and 15 are equipped with water measuring devices. Each of these units is equipped with a weir and an automatic time recorder. The weir unit is built of reinforced concrete and is four feet high, 18 feet long, and six inches thick. In each unit there are two 90 degree notches with a depth of 18 inches. This design of weir is used in order to measure a very small flow as well as a large one.

The still-ponds are 20 feet wide and 40 feet long, with a depth of 18 inches below the level of the notch. The purpose of the pond is to bring the water to a state of rest before passing over the weir.

A concrete still-well two feet six inches square and eight feet high is placed at the edge of each still-pond. This still-well is a support for the Au Fuzee water-stage recorder and houses the water-float, clock-weights and counter-weights.

Soil losses from the above described field areas are not measured.

No water-measuring devices are required for the level closed end terrace field plats, areas 7, 13, and 16.

V. Graph and Tabulation Sheets

Rainfall. All storms were tabulated on form SCS-345, and a few of the more important runoff producing storms each year were selected for detailed analysis. In all, 30 storm periods were platted. Thirteen of these storm periods had a total rainfall of less than one inch, but the intensities were high.

The rain gage charts were analyzed on the basis of break points in the curve rather than equal time intervals. Intensity was calculated between each two break points in the rainfall amount curve. In all cases, the amount of rainfall was taken from the standard gage near the control plats as it was from this gage that the permanent weather record for rainfall has been established. Where there was a discrepancy between the total rain reported for the standard gage and for the recording gage, the recording gage amounts were adjusted throughout the duration of the rain so that the totals were in agreement.

Surface runoff. Depths of runoff and time were taken from the recorder charts and tabulated for calculation. A rating table was used to convert the stage heights to rates of runoff in c.f.s. Rate of runoff was platted against time on the graph sheets and the area under the resulting hydrograph was determined. One inch vertically equalled a runoff rate of one c.f.s. and one inch horizontally represented 20 minutes. In determining the area under the curve, it was necessary to count the number of small squares in each vertical column 0.1 inch wide. The number of squares was subtotaled consecutively through the runoff and recorded for all points of major change in runoff rates. These cumulative figures for number of squares were transposed into surface inches of runoff, and the resulting values were plotted as a cumulative runoff curve in inches for each area.

Table 1.-Watershed Instrumentation
Rain Gages

Area	Gage No.	Type	Date of Installation	Scales: 1" on chart equals		Distance to nearest obstacle	Height of obstacle above top of raingage	Remarks
				Time	Rainfall Depth			
All areas	Recording	24-hour Ferguson Recording	1926	125	0.67	No obstacles	No obstacle	For all areas
1, 2, 3, 5, 6	Recording	12-hour Ferguson Recording	10-1-36	625	0.67	No obstacles	No obstacle	Type of chart changed
7, 11, 12, 13, 14, 15, 16	No. 1	Standard	1911	—	—	—	—	For all areas

Table 2.-Watershed Instrumentation
Run-off Stations

Watershed	Weir		Au Fuzee Water stage recorder Scales: smallest division equals -		Capacity of still-pond	Frequency of field checks			
	Size	Materials	Time	Gage height		Zero on gage	Still-pond dimensions	Settlement	Maximum stage
			Minutes	Feet	Cubic feet				Feet
1, 2, 3, 5, 6- installed in Spring, 1927	Double triangular weir 90° 18" depth	Sharp crest steel set in concrete	5	0.02	1200	1 yr	1 yr	1 yr	1.5
11, 12, 14, 15 - installed in Spring 1930	as above	as above	5	0.02	1200	1 yr	1 yr	1 yr	1.5

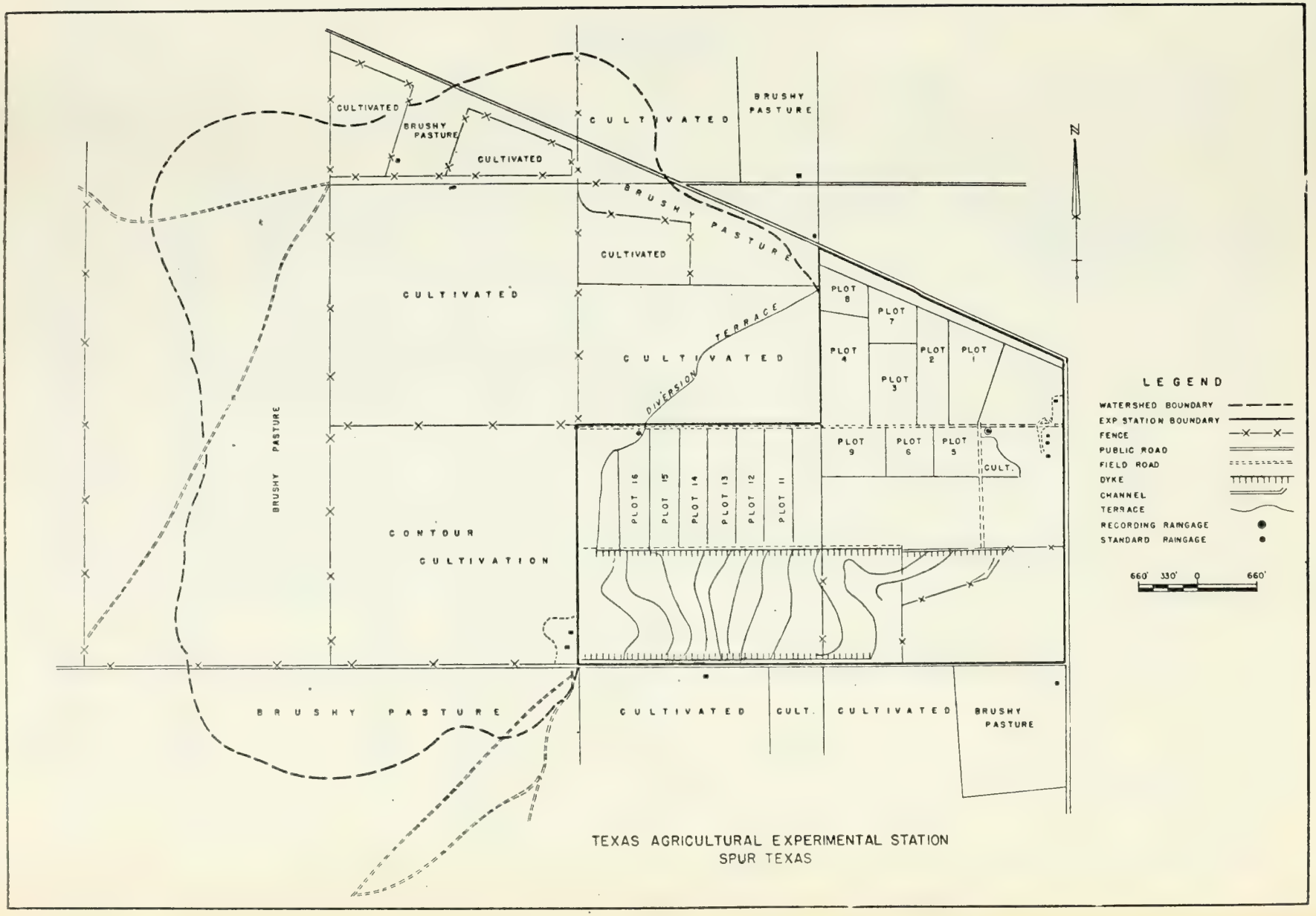


FIGURE 1.– Map of the station

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Jan., Feb., March, 19 27

SHEET 1 OF 99 SHEETS

U. S. GOVERNMENT PRINTING OFFICE : S. 12363

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1-13-27	1	11.530	1	3:30P	180	.30	0.36	0.32	0.26	54	22			0					Contoured rows, cotton
1-13-27	2	9.386	1	3:30P	180	.30	0.36	0.32	0.26	54	22			0					Rows following slope, cotton
1-13-27	3	10.711	1	3:30P	180	.30	0.36	0.32	0.26	54	22			0					One ft. fall between level terraces, cotton
1-13-27	5	5.532	1	3:30P	180	.30	0.36	0.32	0.26	54	22			0					2ft. fall between terraces 3"grade Pf 160.
1-13-27	6	6.044	1	3:30P	180	.30	0.36	0.32	0.26	54	22			0					Two ft. fall between level terraces, cotton
1-24-27	1	11.530	1	4:20A	280	.21	0.24	0.16	0.14	34	32			0					
1-24-27	1	11.530	1	11:00A	300	.21	0.24	0.12	0.12	34	32			0					
1-24-27	2	9.386	1	4:20A	280	.21	0.24	0.16	0.14	34	32			0					
1-24-27	2	9.386	1	11:00A	300	.21	0.24	0.12	0.12	34	32			0					
1-24-27	3	10.711	1	4:20A	280	.21	0.24	0.16	0.14	34	32			0					
1-24-27	3	10.711	1	11:00A	300	.21	0.24	0.12	0.12	34	32			0					
1-24-27	5	5.532	1	4:20A	280	.21	0.24	0.16	0.14	34	32			0					
1-24-27	5	5.532	1	11:00A	300	.21	0.24	0.12	0.12	34	32			0					
1-24-27	6	6.044	1	4:20A	280	.21	0.24	0.16	0.14	34	32			0					
1-24-27	6	6.044	1	11:00A	300	.21	0.24	0.12	0.12	34	32			0					
1-25-27	1	11.530	1			.38	No	chart		39	34			0					
1-25-27	2	9.386	1			.38	No	chart		39	34			0					
1-25-27	3	10.711	1			.38	No	chart		39	34			0					
1-25-27	5	5.532	1			.38	No	chart		39	34			0					
1-25-27	6	6.044	1			.38	No	chart		39	34			0					
2-4-27	1	11.530	1	12:40A	250	.22	0.48	0.28	0.16	69	52			0					
2-4-27	2	9.386	1	12:40A	250	.22	0.48	0.28	0.16	69	52			0					
2-4-27	3	10.711	1	12:40A	250	.22	0.48	0.28	0.16	69	52			0					
2-4-27	5	5.532	1	12:40A	250	.22	0.48	0.28	0.16	69	52			0					
2-4-27	6	6.044	1	12:40A	250	.22	0.48	0.28	0.16	69	52			0					
2-9-27	1	11.530	1			.02	No	chart		48	22			0					
2-9-27	2	9.386	1			.02	No	chart		48	22			0					
2-9-27	3	10.711	1			.02	No	chart		48	22			0					
2-9-27	5	5.532	1			.02	No	chart		48	22			0					
2-9-27	6	6.044	1			.02	No	chart		48	22			0					
2-10-27	1	11.530	1			.02	No	chart		28	22			0					
2-10-27	2	9.386	1			.02	No	chart		28	22			0					
2-10-27	3	10.711	1			.02	No	chart		28	22			0					
2-10-27	5	5.532	1			.02	No	chart		28	22			0					
2-10-27	6	6.044	1			.02	No	chart		28	22			0					
3-1-27	1	11.530	1			.07	No	chart		34	21			0					Rain froze on gage, no intensity
3-1-27	2	9.386	1			.07	No	chart		34	21			0					record available.
3-1-27	3	10.711	1			.07	No	chart		34	21			0					
3-1-27	5	5.532	1			.07	No	chart		34	21			0					
3-1-27	6	6.044	1			.07	No	chart		34	21			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH March, April, May, 1927

SHEET 2 OF 99 SHEETS

U. S. GOVERNMENT PRINTING OFFICE 8—12209

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	MAXIMUM INTENSITY 5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-11-27	1	11.530	1	12:40P	140	.06	0.24	0.16	0.10	79	37			0					
3-11-27	2	9.386	1	12:40P	140	.06	0.24	0.16	0.10	79	37			0					
3-11-27	3	10.711	1	12:40P	140	.06	0.24	0.16	0.10	79	37			0					
3-11-27	5	5.532	1	12:40P	140	.06	0.24	0.16	0.10	79	37			0					
3-11-27	6	6.044	1	12:40P	140	.06	0.24	0.16	0.10	79	37			0					
3-30-27	1	11.530	1	11:50P						80	46			0					
3-31-27	1	11.530	1		280	.93	4.44	2.96	1.50	78	52			0					
3-30-27	2	9.386	1	11:50P						80	46			0					
3-31-27	2	9.386	1		280	.93	4.44	2.96	1.50	78	52			0					
3-30-27	3	10.711	1	11:50P						80	46			0					
3-31-27	3	10.711	1		280	.93	4.44	2.96	1.50	78	52			0					
3-30-27	5	5.532	1	11:50P						80	46			0					
3-31-27	5	5.532	1		280	.93	4.44	2.96	1.50	78	52			0					
3-30-27	6	6.044	1	11:50P						80	46			0					
3-31-27	6	6.044	1		280	.93	4.44	2.96	1.50	78	52			0					
4-1-27	1	11.530	1	9:10A	30	.02				70	45			0					
4-1-27	2	9.386	1	9:10A	30	.02				70	45			0					
4-1-27	3	10.711	1	9:10A	30	.02				70	45			0					
4-1-27	5	5.532	1	9:10A	30	.02				70	45			0					
4-1-27	6	6.044	1	9:10A	30	.02				70	45			0					
4-12-27	1	11.530	1	9:55P	55	.35	2.04	1.00	0.50	87	40			0					
4-12-27	2	9.386	1	9:55P	55	.35	2.04	1.00	0.50	87	40			0					
4-12-27	3	10.711	1	9:55P	55	.35	2.04	1.00	0.50	87	40			0					
4-12-27	5	5.532	1	9:55P	55	.35	2.04	1.00	0.50	87	40			0					
4-12-27	6	6.044	1	9:55P	55	.35	2.04	1.00	0.50	87	40			0					
4-19-27	1	11.530	1	8:00A	90	.03				81	50			0					
4-19-27	2	9.386	1	8:00A	90	.03				81	50			0					
4-19-27	3	10.711	1	8:00A	90	.03				81	50			0					
4-19-27	5	5.532	1	8:00A	90	.03				81	50			0					
4-19-27	6	6.044	1	8:0 A	90	.03				81	50			0					
5-1-27	1	11.530	1	7:15P	15	.19	1.44	0.76	0.28	89	49			0					
5-1-27	2	9.386	1	7:15P	15	.19	1.44	0.76	0.28	89	49			0					
5-1-27	3	10.711	1	7:15P	15	.19	1.44	0.76	0.28	89	49			0					
5-1-27	5	5.532	1	7:15P	15	.19	1.44	0.76	0.28	89	49			0					
5-1-27	6	6.044	1	7:15P	15	.19	1.44	0.76	0.28	89	49			0					
5-13-27	1	11.530	1	5:40P	140	.15	0.36	0.24	0.14	74	48			0					
5-13-27	2	9.386	1	5:40P	140	.15	0.36	0.24	0.14	74	48			0					
5-13-27	3	10.711	1	5:40P	140	.15	0.36	0.24	0.14	74	48			0					
5-13-27	5	5.532	1	5:40P	140	.15	0.36	0.24	0.14	74	48			0					
5-13-27	6	6.044	1	5:40P	140	.15	0.36	0.24	0.14	74	48			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month May & June, 1927

Project Spur, Texas

Sheet 3 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-21-27	1	11.530	1			0.18	No chart			103	65			0					
5-21-27	2	9.386	1			0.18	No chart			103	65			0					
5-21-27	3	10.711	1			0.18	No chart			103	65			0					
5-21-27	5	5.532	1			0.18	No chart			103	65			0					
5-21-27	6	6.044	1			0.18	No chart			103	65			0					
5-24-27	1	11.530	1	6:00P	10	0.14	0.60	0.44	0.24	101	59			0					
5-24-27	2	9.386	1	6:00P	10	0.14	0.60	0.44	0.24	101	59			0					
5-24-27	3	10.711	1	6:00P	10	0.14	0.60	0.44	0.24	101	59			0					
5-24-27	5	5.532	1	6:00P	10	0.14	0.60	0.44	0.24	101	59			0					
5-24-27	6	6.044	1	6:00P	10	0.14	0.60	0.44	0.24	101	59			0					
6-1-27	1	11.530	1	4:00P	190	1.41	2.88	1.88	1.12	101	57	5:40P	7:05P	.11	4.5	6:30P	1.30		
6-1-27	2	9.386	1	4:00P	190	1.41	2.88	1.88	1.12	101	57	4:43P	9:00P	.24	1.6	5:30P	1.17		
6-1-27	3	10.711	1	4:00P	190	1.41	2.88	1.88	1.12	101	57	5:00P	11:10P	.31	2.7	5:57P	1.10		
6-1-27	5	5.532	1	4:00P	190	1.41	2.88	1.88	1.12	101	57	4:50P	2:00A	.64	4.0	5:45P	.77		
6-1-27	6	6.044	1	4:00P	190	1.41	2.88	1.88	1.12	101	57	5:00P	8:20P	.11	0.5	5:20P	1.30		
6-6-27	1	11.530	1	1:20P	40	0.19	0.96	0.36	0.28	86	59			0					
6-6-27	2	9.886	1	1:20P	40	0.19	0.96	0.36	0.28	86	59			0					
6-6-27	3	10.711	1	1:20P	40	0.19	0.96	0.36	0.28	86	59			0					
6-6-27	5	5.532	1	1:20P	40	0.19	0.96	0.36	0.28	86	59			0					
6-6-27	6	6.044	1	1:20P	40	0.19	0.96	0.36	0.28	86	59			0					
6-13-27	1	11.530	1	5:30P			0.72	0.48	0.40	101	60								
6-14-27	1	11.530	1		547	0.93													
6-14-27	1	11.530	1	3:55A	585	1.08	1.32	0.76	0.41	101	61			.06			1.02		Runoff charts not available amount from Station annual report
6-13-27	2	9.386	1	5:30P			0.72	0.48	0.40	101	60								
6-14-27	2	9.386	1		547	0.93													
6-14-27	2	9.386	1	3:55A	585	1.08	1.32	0.76	0.41	101	61			.14			.97		
6-13-27	3	10.711	1	5:30P			0.72	0.48	0.40	101	60								
6-14-27	3	10.711	1		547	0.93													
6-14-27	3	10.711	1	3:55A	585	1.08	1.32	0.76	0.41	101	61			.07			.94		
6-13-27	5	5.532	1	5:30P			0.72	0.48	0.40	101	60								
6-14-27	5	5.532	1		547	0.93													
6-14-27	5	5.532	1	3:55A	585	1.08	1.32	0.76	0.41	101	61			.09			.92		
6-13-27	6	6.044	1	5:30P			0.72	0.48	0.40	101	60								
6-14-27	6	6.044	1		547	0.93								0			.93		
6-14-27	6	6.044	1	3:55A	585	1.08	1.32	0.76	0.41	101	61								
6-16-27	1	11.530	1			.06	No chart			73	51			0					
6-16-27	2	9.386	1			.06	No chart			73	51			0					
6-16-27	3	10.711	1			.06	No chart			73	51			0					
6-16-27	5	5.532	1			.06	No chart			73	51			0					
6-16-27	6	6.044	1			.06	No chart			73	51			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH June, July, 1927

SHEET 4 OF 99 SHEETS

U. S. GOVERNMENT PRINTING OFFICE 5—12363

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft per	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-20-27	1	11.530	1	3:00A	15	.03	0.36	0.12	.06	96	68			0					
6-20-27	2	9.386	1	3:00A	15	.03	0.36	0.12	.06	96	68			0					
6-20-27	3	10.711	1	3:00A	15	.03	0.36	0.12	.06	96	68			0					
6-20-27	5	5.532	1	3:00A	15	.03	0.36	0.12	.06	96	68			0					
6-20-27	6	6.044	1	3:00A	15	.03	0.36	0.12	.06	96	68			0					
6-22-27	1	11.530	1			.04				86	63			0					
6-22-27	2	9.386	1			.04				86	63			0					
6-22-27	3	10.711	1			.04				86	63			0					
6-22-27	5	5.532	1			.04				86	63			0					
6-22-27	6	6.044	1			.04				86	63			0					
6-23-27	1	11.530	1	7:40A	220	.34	0.60	0.28	.20	86	60			0					
6-23-27	2	9.386	1	7:40A	220	.34	0.60	0.28	.20	86	60			0					
6-23-27	3	10.711	1	7:40A	220	.34	0.60	0.28	.20	86	60			0					
6-23-27	5	5.532	1	7:40A	220	.34	0.60	0.28	.20	86	60			0					
6-23-27	6	6.044	1	7:40A	220	.34	0.60	0.28	.20	86	60			0					
6-30-27	1	11.530	1	12:40A	.55	.48	2.64	1.68	.88	95	62			0					
6-30-27	2	9.386	1	12:40A	.55	.48	2.64	1.68	.88	95	62			0					
6-30-27	3	10.711	1	12:40A	.55	.48	2.64	1.68	.88	95	62			0					
6-30-27	5	5.532	1	12:40A	.55	.48	2.64	1.68	.88	95	62			0					
6-30-27	6	6.044	1	12:40A	.55	.48	2.64	1.68	.88	95	62			0					
7-14-27	1	11.530	1	3:50A	230	.32	0.36	0.24	0.14	87	65			0					
7-14-27	2	9.386	1	3:50A	230	.32	0.36	0.23	0.14	87	65			0					
7-14-27	3	10.711	1	3:50A	230	.32	0.36	0.24	0.14	87	65			0					
7-14-27	5	5.532	1	3:50A	230	.32	0.36	0.24	0.14	87	65			0					
7-14-27	6	6.044	1	3:50A	230	.32	0.36	0.24	0.14	87	65			0					
7-24-27	1	11.530	1	8:30A	55	.55	2.64	2.08	1.04	81	61			0					
7-24-27	1	11.530	1	11:50A	60	.37	.72	.64	.56	81	61			0					
7-24-27	2	9.386	1	8:30A	55	.55	2.64	2.08	1.04	81	61			0					
7-24-27	2	9.386	1	11:50A	60	.37	.72	.64	.56	81	61			0					
7-24-27	3	10.711	1	8:30A	55	.55	2.64	2.08	1.04	81	61			0					
7-24-27	3	10.711	1	11:50A	60	.37	.72	.64	.56	81	61			0					
7-24-27	5	5.532	1	8:30A	55	.55	2.64	2.08	1.04	81	61			0					
7-24-27	5	5.532	1	11:50A	60	.37	.72	.64	.56	81	61			0					
7-24-27	6	6.044	1	8:30A	55	.55	2.64	2.08	1.04	81	61			0					
7-24-27	6	6.044	1	11:50A	60	.37	.72	.64	.56	81	61			0					
7-30-27	1	11.530	1	10:10A	110	.23	1.20	.84	.42	97	67			0					
7-30-27	2	9.386	1	10:10A	110	.23	1.20	.84	.42	97	67			0					
7-30-27	3	10.711	1	10:10A	110	.23	1.20	.84	.42	97	67			0					
7-30-27	5	5.532	1	10:10A	110	.23	1.20	.84	.42	97	67			0					
7-30-27	6	6.044	1	10:10A	110	.23	1.20	.84	.42	97	67			0					

Form S. C. S.-245

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month August, September, 1927

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Sheet 5 of 99 sheets

U. S. GOVERNMENT PRINTING OFFICE 5-12343

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-7-27	1	11.530	1	5:30A	30	.02								0					
8-9-27	2	9.386	1	5:30A	30	.02								0					
8-9-27	3	10.711	1	5:30A	30	.02								0					
8-9-27	5	5.532	1	5:30A	30	.02								0					
8-9-27	6	6.044	1	5:30A	30	.02								0					
8-13-27	1	11.530	1	1:30P	60	.35	1.44	.84	.64					0					
8-13-27	2	9.386	1	1:30P	60	.35	1.44	.84	.64					0					
8-13-27	3	10.711	1	1:30P	60	.35	1.44	.84	.64					0					
8-13-27	5	5.532	1	1:30P	60	.35	1.44	.84	.64					0					
8-13-27	6	6.044	1	1:30P	60	.35	1.44	.84	.64					0					
8-14-27	1	11.530	1	3:10P	50	.03				94	65			0					Slow drizzle
8-14-27	1	11.530	1	9:00P	60	.03				94	65			0					" "
8-14-27	2	9.386	1	3:10P	50	.03				94	65			0					" "
8-14-27	2	9.386	1	9:00P	60	.03				94	65			0					" "
8-14-27	3	10.711	1	3:10P	50	.03				94	65			0					" "
8-14-27	3	10.711	1	9:00P	60	.03				94	65			0					" "
8-14-27	5	5.532	1	3:10P	50	.03				94	65			0					" "
8-14-27	5	5.532	1	9:00P	60	.03				94	65			0					" "
8-14-27	6	6.044	1	3:10P	50	.03				94	65			0					" "
8-14-27	6	6.044	1	9:00P	60	.03				94	65			0					" "
8-17-27	1	11.530	1	9:00P	30	.06	0.48	0.24	0.12	100	64			0					
8-17-27	2	9.386	1	9:00P	30	.06	0.48	0.24	0.12	100	64			0					
8-17-27	3	10.711	1	9:00P	30	.06	0.48	0.24	0.12	100	64			0					
8-17-27	5	5.532	1	9:00P	30	.06	0.48	0.24	0.12	100	64			0					
8-17-27	6	6.044	1	9:00P	30	.06	0.48	0.24	0.12	100	64			0					
8-20-27	1	11.530	1			.03	No chart			85	59			0					
8-20-27	2	9.386	1			.03	No chart			85	59			0					
8-20-27	3	10.711	1			.03	No chart			85	59			0					
8-20-27	5	5.532	1			.03	No chart			85	59			0					
8-20-27	6	6.044	1			.03	No chart			85	59			0					
8-21-27	1	11.530	1	7:50A	340	.26	.24	.16	.10	69	59			0					Slow drizzle
8-21-27	2	9.386	1	7:50A	340	.26	.24	.16	.10	69	59			0					" "
8-21-27	3	10.711	1	7:50A	340	.26	.24	.16	.10	69	59			0					" "
8-21-27	5	5.532	1	7:50A	340	.26	.24	.16	.10	69	59			0					" "
8-21-27	6	6.044	1	7:50A	340	.26	.24	.16	.10	69	59			0					" "
9-1-27	1	11.530	1	9:45P	130	.17	.72	.32	.20	99	64			0					
9-1-27	2	9.386	1	9:45P	130	.17	.72	.32	.20	99	64			0					
9-1-27	3	10.711	1	9:45P	130	.17	.72	.32	.20	99	64			0					
9-1-27	5	5.532	1	9:45P	130	.17	.72	.32	.20	99	64			0					
9-1-27	6	6.044	1	9:45P	130	.17	.72	.32	.20	99	64			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month September, 1927

Project Spur, Texas

Sheet 6 of 9 sheets

U. S. GOVERNMENT PRINTING OFFICE 8-12765

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-4-27	1	11.530	1	12:50P	70	.12	.36	.20	.14	99	63			0					
9-4-27	1	11.530	1	3:20P	240	.27	.24	.16	.12	99	63			0					
9-4-27	2	9.386	1	12:50P	70	.12	.36	.20	.14	99	63			0					
9-4-27	2	9.386	1	3:20P	240	.27	.24	.16	.12	99	63			0					
9-4-27	3	10.711	1	12:50P	70	.12	.36	.20	.14	99	63			0					
9-4-27	3	10.711	1	3:20P	240	.27	.24	.16	.12	99	63			0					
9-4-27	5	5.532	1	12:50P	70	.12	.36	.20	.14	99	63			0					
9-4-27	5	5.532	1	3:20P	240	.27	.24	.16	.12	99	63			0					
9-4-27	6	6.044	1	12:50P	70	.12	.36	.20	.14	99	63			0					
9-4-27	6	6.044	1	3:20P	240	.27	.24	.16	.12	99	63			0					
9-5-27	1	11.530	1	8:00P	160	.41	1.68	1.52	.76	86	52			0					
9-5-27	1	11.530	1	4:20A	180	.51	1.20	.88	.48	86	52			0					
9-5-27	2	9.386	1	8:00P	160	.41	1.68	1.52	.76	86	52			0					
9-5-27	2	9.386	1	4:20A	180	.51	1.20	.88	.48	86	52			0					
9-5-27	3	10.711	1	8:00P	160	.41	1.68	1.52	.76	86	52			0					
9-5-27	3	10.711	1	4:20A	180	.51	1.20	.88	.48	86	52			0					
9-5-27	5	5.532	1	8:00P	160	.41	1.68	1.52	.76	86	52			0					
9-5-27	5	5.532	1	4:20A	180	.51	1.20	.88	.48	86	52			0					
9-5-27	6	6.044	1	8:00P	160	.41	1.68	1.52	.76	86	52			0					
9-5-27	6	6.044	1	4:20A	180	.51	1.20	.88	.48	86	52			0					
9-15-27	1	11.530	1	11:10A	30	.17	.60	.56	.34	91	64			0					
9-15-27	2	9.386	1	11:10A	30	.17	.60	.56	.34	91	64			0					
9-15-27	3	10.711	1	11:10A	30	.17	.60	.56	.34	91	64			0					
9-15-27	5	5.532	1	11:10A	30	.17	.60	.56	.34	91	64			0					
9-15-27	6	6.044	1	11:10A	30	.17	.60	.56	.34	91	64			0					
9-19-27	1	11.530	1	1:20P	85	.08	.24	.16	.14	65	47			0					
9-19-27	2	9.386	1	1:20P	85	.08	.24	.16	.14	65	47			0					
9-19-27	3	10.711	1	1:20P	85	.08	.24	.16	.14	65	47			0					
9-19-27	5	5.532	1	1:20P	85	.08	.24	.16	.14	65	47			0					
9-19-27	6	6.044	1	1:20P	85	.08	.24	.16	.14	65	47			0					
9-20-27	1	11.530	1	No chart		.24	No chart			85	53			0					
9-20-27	2	9.386	1	No chart		.24	No chart			85	53			0					
9-20-27	3	10.711	1	No chart		.24	No chart			85	53			0					
9-20-27	5	5.532	1	No chart		.24	No chart			85	53			0					
9-20-27	6	6.044	1	No chart		.24	No chart			85	53			0					
9-25-27	1	11.530	1	10:30A	80	.17	.24	.20	.14	75	56	No runoff chart		0	available				No record kept for runoff from individual rains but for a period of rains for 4 days. The amount of rain that fell was 2.34 and slight runoff occurred.
9-25-27	1	11.530	1	5:35P	60	.28	.60	.44	.34	75	56			0					
9-25-27	2	9.386	1	10:30A	80	.17	.24	.20	.14	75	56			0					
9-25-27	2	9.386	1	5:35P	60	.28	.60	.44	.34	75	56			0					
9-25-27	3	10.711	1	10:20A	80	.17	.24	.20	.14	75	56			0					
9-25-27	3	10.711	1	5:35P	60	.28	.60	.44	.34	75	56			0					

Form S. C. [illegible]5

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Sept., Oct., 1927

Sheet 7 of 99 sheets

Project Spur, Texas

U. S. GOVERNMENT PRINTING OFFICE 3—12308

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu. ft./sec.	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-25-27	5	5.532	1	10:30A	80	.17	.24	.20	.14	75	56			0					
9-25-27	5	5.532	1	5:35P	60	.28	.60	.44	.34	75	56			0					
9-25-27	6	6.044	1	10:30A	80	.17	.24	.20	.14	75	56	Runoff chart			not available				No records kept for runoff from individual rains, but for the amount of rain that fell in the 4 days period was 2.24 inches and slight runoff occurred.
9-25-27	6	6.044	1	5:35P	60	.28	.60	.44	.34	75	56			0					
9-26-27	1	11.530	1	5:20P	100	.83	1.68	1.20	1.	88	48			.03					
9-26-27	2	9.386	1	5:20P	100	.83	1.68	1.20	1.	88	48			.03					
9-26-27	3	10.711	1	5:20P	100	.83	1.68	1.20	1.	88	48			.09					
9-26-27	5	5.532	1	5:20P	100	.83	1.60	1.20	1.	88	48			.21					
9-26-27	6	6.044	1	5:20P	100	.83	1.60	1.20	1.	88	48			0					
9-27-27	1	11.530	1	8:00P	60	.20	.72	.32	.16	52	41								
9-27-27	2	9.386	1	8:00P	60	.20	.72	.32	.16	52	41								
9-27-27	3	10.711	1	8:00P	60	.20	.72	.32	.16	52	41								
9-27-27	5	5.532	1	8:00P	60	.20	.72	.32	.16	52	41								
9-27-27	6	6.044	1	8:00P	60	.20	.72	.32	.16	52	41								
9-28-27	1	11.530	1	6:30A	210	.63	1.20	.92	.88	50	40								No records kept for runoff from individual rains but for a peri of rain of 4 days the amount o rain that fell in the 4 days wa 2.24 inches and slight runoff occurred.
9-28-27	1	11.530	1	2:30P	40	.13	.48	.16	.12	50	40								
9-28-27	2	9.386	1	6:30A	210	.63	1.20	.92	.88	50	40								
9-28-27	2	9.386	1	2:30P	40	.13	.48	.16	.12	50	40								
9-28-27	3	10.711	1	6:30A	210	.63	1.20	.92	.86	50	40								
9-28-27	3	10.711	1	2:30P	40	.13	.48	.16	.12	50	40								
9-28-27	5	5.532	1	6:30A	210	.63	1.20	.92	.88	50	40								
9-28-27	5	5.532	1	2:30P	40	.13	.48	.16	.12	50	40								
9-28-27	6	6.044	1	6:30A	210	.63	1.20	.92	.68	50	40								
9-28-27	6	6.044	1	2:30P	40	.13	.48	.16	.12	50	40								
10-1-27	1	11.530	1	3:20A	70	.29	.72	.48	.28	76	52			0					
10-1-27	2	9.386	1	3:20A	70	.29	.72	.48	.28	76	52			0					
10-1-27	3	10.711	1	3:20A	70	.29	.72	.48	.28	76	52			0					
10-1-27	5	5.532	1	3:20A	70	.29	.72	.48	.28	76	52			0					
10-1-27	6	6.044	1	3:20A	70	.29	.72	.48	.28	76	52			0					
10-7-27	1	11.530	1	2:40P	170	.59	1.68	.96	.60	55	47			0					
10-8-27	1	11.530	1	1:45A	125	.29	.96	.40	.28	55	47			0					
10-7-27	2	9.386	1	2:40P	170	.59	1.68	.96	.60	55	47			0					
10-8-27	2	9.386	1	1:45A	125	.29	.96	.40	.28	55	47			0					
10-7-27	3	10.711	1	2:40P	170	.59	1.68	.96	.60	55	47			0					
10-8-27	3	10.711	1	1:45A	125	.29	.96	.40	.28	55	47			0					
10-7-27	5	5.532	1	2:40P	170	.59	1.68	.96	.60	55	47			0					
10-8-27	5	5.532	1	1:45A	125	.29	.96	.40	.28	55	47			0					
10-7-27	6	6.044	1	2:40P	170	.59	1.68	.96	.60	55	47			0					
10-8-27	6	6.044	1	1:45A	125	.29	.96	.40	.28	55	47			0					

Form S. C. S.-245

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

MONTH Oct., , , Dec., 1927

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET 8 OF 99 SHEETS

PROJECT Spur, Texas

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off			Maximum Rate		Rainfall Minus Run-off (inches)	Silt Load (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-29-27	1	11,530	1	No chart		.02	No chart			85	43			0					
10-29-27	2	9,386	1	No chart		.02	No chart			85	43			0					
10-29-27	3	10,711	1	No chart		.02	No chart			85	43			0					
10-29-27	5	5,532	1	No chart		.02	No chart			85	43			0					
10-29-27	6	6,044	1	No chart		.02	No chart			85	43			0					
12-13-27	1	11,530	1	No chart		.07	No chart			70	44			0					
12-13-27	2	9,386	1	No chart		.07	No chart			70	44			0					
12-13-27	3	10,711	1	No chart		.07	No chart			70	44			0					
12-13-27	5	5,532	1	No chart		.07	No chart			70	44			0					
12-13-27	6	6,044	1	No chart		.07	No chart			70	44			0					
12-20-27	1	11,530	1	No chart		.07	No chart			44	14			0					
12-20-27	2	9,386	1	No chart		.07	No chart			44	14			0					
12-20-27	3	10,711	1	No chart		.07	No chart			44	14			0					
12-20-27	5	5,532	1	No chart		.07	No chart			44	14			0					
12-20-27	6	6,044	1	No chart		.07	No chart			44	14			0					
12-27-27	1	11,530	1	No chart		.17	No chart			44	14			0					
12-27-27	2	9,386	1	No chart		.17	No chart			44	14			0					
12-27-27	3	10,711	1	No chart		.17	No chart			44	14			0					
12-27-27	5	5,532	1	No chart		.17	No chart			44	14			0					
12-27-27	6	6,044	1	No chart		.17	No chart			44	14			0					
12-28-27	1	11,530	1	No chart		.11	No chart			47	33			0					
12-28-27	2	9,386	1	No chart		.11	No chart			47	33			0					
12-28-27	3	10,711	1	No chart		.11	No chart			47	33			0					
12-28-27	5	5,532	1	No chart		.11	No chart			47	33			0					
12-28-27	6	6,044	1	No chart		.11	No chart			47	33			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Jan., Feb. , 1928

SHEET 9 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1-17-28	1	11.530	1	No chart		.13	No chart			53	39			0					
1-17-28	2	9.386	1	No chart		.13	No chart			53	39			0					
1-17-28	3	10.711	1	No chart		.13	No chart			53	39			0					
1-17-28	5	5.532	1	No chart		.13	No chart			53	39			0					
1-17-28	6	6.044	1	No chart		.13	No chart			53	39			0					
1-18-28	1	11.530	1	1:40A	90	.06	.24	.16	.08	49	42			0					
1-18-28	1	11.530	1	4:30P	40	.05				49	42			0					
1-18-28	2	9.386	1	1:40A	90	.06	.24	.16	.08	49	42			0					
1-18-28	2	9.386	1	4:30P	40	.05				49	42			0					
1-18-28	3	10.711	1	1:40A	90	.06	.24	.16	.08	49	42			0					
1-18-28	3	10.711	1	4:30P	40	.05				49	42			0					
1-18-28	5	5.532	1	1:40A	90	.06	.24	.16	.08	49	42			0					
1-18-28	5	5.532	1	4:30P	40	.05				49	42			0					
1-18-28	6	6.044	1	1:40A	90	.06	.24	.16	.08	49	42			0					
1-18-28	6	6.044	1	4:30P	40	.05				49	42			0					
2-4-28	1	11.530	1	No chart		.10	No chart			56	48			0					
2-4-28	2	9.386	1	No chart		.10	No chart			56	48			0					
2-4-28	3	10.711	1	No chart		.10	No chart			56	48			0					
2-4-28	5	5.532	1	No chart		.10	No chart			56	48			0					
2-4-28	6	6.044	1	No chart		.10	No chart			56	48			0					
2-6-28	1	11.530	1	No chart		.04	No chart			73	34			0					
2-6-28	2	9.386	1	No chart		.04	No chart			73	34			0					
2-6-28	3	10.711	1	No chart		.04	No chart			73	34			0					
2-6-28	5	5.532	1	No chart		.04	No chart			73	34			0					
2-6-28	6	6.044	1	No chart		.04	No chart			73	34			0					
2-12-28	1	11.530	1	3:40A	190	.41	.48	.20	.12	60	39			0					
2-12-28	2	9.386	1	3:40A	190	.41	.48	.20	.12	60	39			0					
2-12-28	3	10.711	1	3:40A	190	.41	.48	.20	.12	60	39			0					
2-12-28	5	5.532	1	3:40A	190	.41	.48	.20	.12	60	39			0					
2-12-28	6	6.044	1	3:40A	190	.41	.48	.20	.12	60	39			0					
2-13-28	1	11.530	1	No chart		.03	No chart			32	10			0					
2-13-28	2	9.386	1	No chart		.03	No chart			32	10			0					
2-13-28	3	10.711	1	No chart		.03	No chart			32	10			0					
2-13-28	5	5.532	1	No chart		.03	No chart			32	10			0					
2-13-28	6	6.044	1	No chart		.03	No chart			32	10			0					
2-16-28	1	11.530	1	No chart		.03	No chart			62	29			0					
2-16-28	2	9.386	1	No chart		.03	No chart			62	29			0					
2-16-28	3	10.711	1	No chart		.03	No chart			62	29			0					
2-16-28	5	5.532	1	No chart		.03	No chart			62	29			0					
2-16-28	6	6.044	1	No chart		.03	No chart			62	29			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Feb., Mar., April. May 19 28

SHEET 10 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
2-17-28	1	11,530	1			.33				32	10			0					This was a snow that drifted over the rain gage so the chart was incorrect and the total was all we had to go by.
2-17-28	2	9,386	1			.33				32	10			0					
2-17-28	3	10,711	1			.33				32	10			0					
2-17-28	5	5,532	1			.33				32	10			0					
2-17-28	6	6,044	1			.33				32	10			0					
2-22-28	1	11,530	1	No chart		.02	No chart			51	38			0					
2-22-28	2	9,386	1	No chart		.02	No chart			51	38			0					
2-22-28	3	10,711	1	No chart		.02	No chart			51	38			0					
2-22-28	5	5,532	1	No chart		.02	No chart			51	38			0					
2-22-28	6	6,044	1	No chart		.02	No chart			51	38			0					
3-15-28	1	11,530	1	9:15P	40	.36	1.20	.96	.72	75	46			0					
3-15-28	2	9,386	1	9:15P	40	.36	1.20	.96	.72	75	46			0					
3-15-28	3	10,711	1	9:15P	40	.36	1.20	.96	.72	75	46			0					
3-15-28	5	5,532	1	9:15P	40	.36	1.20	.96	.72	75	46			0					
3-15-28	6	6,044	1	9:15P	40	.36	1.20	.96	.72	75	46			0					
4-5-28	1	11,530	1	9:40P	20	.04	.24	.16		87	40			0					
4-5-28	2	9,386	1	9:40P	20	.04	.24	.16		87	40			0					
4-5-28	3	10,711	1	9:40P	20	.04	.24	.16		87	40			0					
4-5-28	5	5,532	1	9:40P	20	.04	.24	.16		87	40			0					
4-5-28	6	6,044	1	9:40P	20	.04	.24	.16		87	40			0					
4-9-28	1	11,530	1	No chart		.08	No chart			38	31			0					
4-9-28	2	9,386	1	No chart		.08	No chart			38	31			0					
4-9-28	3	10,711	1	No chart		.08	No chart			38	31			0					
4-9-28	5	5,532	1	No chart		.08	No chart			38	31			0					
4-9-28	6	6,044	1	No chart		.08	No chart												
4-22-28	1	11,530	1	8:20P	55	.08	.24	.16	.10					0					
4-22-28	2	9,386	1	8:20P	55	.08	.24	.16	.10					0					
4-22-28	3	10,711	1	8:20P	55	.08	.24	.16	.10					0					
4-22-28	5	5,532	1	8:20P	55	.08	.24	.16	.10					0					
4-22-28	6	6,044	1	8:20P	55	.08	.24	.16	.10					0					
5-3-28	1	11,530	1	12:45P	65	.21	.48	.32	.20	88	60			0					
5-3-28	2	9,386	1	12:45P	65	.21	.48	.32	.20	88	60			0					
5-3-28	3	10,711	1	12:45P	65	.21	.48	.32	.20	88	60			0					
5-3-28	5	5,532	1	12:45P	65	.21	.48	.32	.20	88	60			0					
5-3-28	6	6,044	1	12:45P	65	.21	.48	.32	.20	88	60			0					
5-4-28	1	11,530	1	11:00A	60	.18	.48	.28	.16	67	46			0					
5-4-28	2	9,386	1	11:00A	60	.18	.48	.28	.16	67	46			0					
5-4-28	3	10,711	1	11:00A	60	.18	.48	.28	.16	67	46			0					
5-4-28	5	5,532	1	11:00A	60	.18	.48	.28	.16	67	46			0					
5-4-28	6	6,044	1	11:00A	60	.18	.48	.28	.16	67	46			0					

Form S. C. S.-343

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month May, 19 28

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Sheet 11 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate				
															Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-11-28	1	11.530	1	5:10A	50	.24	.48	.40	.21	90	56			0					
5-11-28	2	9.386	1	5:10A	50	.24	.48	.40	.21	90	56			0					
5-11-28	3	10.711	1	5:10A	50	.24	.48	.40	.21	90	56			0					
5-11-28	5	5.532	1	5:10A	50	.24	.48	.40	.21	90	56			0					
5-11-28	6	6.044	1	5:10A	50	.24	.48	.40	.21	90	56			0					
5-13-28	1	11.530	1	5:05P	355	.95	.60	.24	.20	68	51			0					
5-14-28	1	11.530	1	2:00A	240	.38	.48	.32	.24	74	56			0					
5-14-28	1	11.530	1	3:50A	190	.22	.24	.32	.16	74	56			0					
5-13-28	2	9.386	1	5:05P	355	.95	.60	.24	.20	68	51			0					
5-14-28	2	9.386	1	2:00A	240	.38	.48	.32	.24	74	56			0					
5-14-28	2	9.386	1	3:50A	190	.22	.24	.32	.16	74	56			0					
5-13-28	3	10.711	1	5:05P	355	.95	.60	.24	.20	68	51			0					
5-14-28	3	10.711	1	2:00A	240	.38	.48	.32	.24	74	56			0					
5-14-28	3	10.711	1	3:50A	190	.22	.24	.32	.16	74	56			0					
5-13-28	5	5.532	1	5:05P	355	.95	.60	.24	.20	68	51			0					
5-14-28	5	5.532	1	2:00A	240	.38	.48	.32	.24	74	56			0					
5-14-28	5	5.532	1	3:50A	190	.22	.24	.32	.16	74	56			0					
5-13-28	6	6.044	1	5:05P	355	.95	.60	.24	.20	68	51			0					
5-14-28	6	6.044	1	2:00A	240	.38	.48	.32	.24	74	56			0					
5-14-28	6	6.044	1	3:50A	190	.22	.24	.32	.16	74	56			0					
5-15-28	1	11.530	1	4:15P	45	.27	.84	.60	.50	79	54			0					
5-15-28	2	9.386	1	4:15P	45	.27	.84	.60	.50	79	54			0					
5-15-28	3	10.711	1	4:15P	45	.27	.84	.60	.50	79	54			0					
5-15-28	5	5.532	1	4:15P	45	.27	.84	.60	.50	79	54			0					
5-15-28	6	6.044	1	4:15P	45	.27	.84	.60	.50	79	54			0					
5-18-28	1	11.530	1	4:25P	115	.98	3.36	3.30	1.80	79	54	4:55P	9:30P	.40	3.9	5:25P	.58		
5-18-28	2	9.386	1	4:25P	115	.98	3.36	3.30	1.80	79	54	4:45P	9:10P	.53	3.7	5:05P	.45		
5-18-28	3	10.711	1	4:25P	115	.98	3.36	3.30	1.80	79	54	4:55P	9:40P	.63	5.1	5:30P	.35		
5-18-28	5	5.532	1	4:25P	115	.98	3.36	3.30	1.80	79	54	4:55P	9:40P	.57	4.6	5:10P	.41		
5-18-28	6	6.044	1	4:25P	115	.98	3.36	3.30	1.80	79	54	4:50P	9:40P	.23	0.9	5:10P	.75		
5-19-28	1	11.530	1	5:00A	55	.08	.24	.12	.06	74	59	0							
5-19-28	2	9.386	1	5:00A	55	.08	.24	.12	.06	74	59	0							
5-19-28	3	10.711	1	5:00A	55	.08	.24	.12	.06	74	59	0							
5-19-28	5	5.532	1	5:00A	55	.08	.24	.12	.06	74	59	0							
5-19-28	6	6.044	1	5:00A	55	.08	.24	.12	.06	74	59	0							

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month May, June, 1928

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Sheet 12 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Load (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu ft sec.	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-19-28	1	11.530	1	8:10P	35	.14	.36	.28	.24	70	61								
5-20-28	1	11.530	1	1:35A	105	.66	2.40	1.04	.70	70	61	3:10A	8:20A	.40	3.2	3:45A	.40		
5-19-28	2	9.386	1	8:10P	35	.14	.36	.28	.24	70	61								
5-20-28	2	9.386	1	1:35A	105	.66	2.40	1.04	.70	70	61	2:50A	8:10A	.25	1.6	3:20A	.56		
5-19-28	3	10.711	1	8:10P	35	.14	.36	.28	.24	70	61								
5-20-28	3	10.711	1	1:35A	105	.66	2.40	1.04	.70	70	61	2:40A	8:20A	.31	1.6	3:40A	.49		
5-19-28	5	5.532	1	8:10P	35	.14	.36	.28	.24	70	61								
5-20-28	5	5.532	1	1:35A	105	.66	2.40	1.04	.70	70	61	2:35A	8:20A	.56	2.6	3:05A	.24		
5-19-28	6	6.044	1	8:10P	35	.14	.36	.28	.24	70	61								
5-20-28	6	6.044	1	1:35A	105	.66	2.40	1.04	.70	70	61	2:35A	7:00A	.10	0.3	3:10A	.70		
5-21-28	1	11.530	1	No chart		.02	No chart			70	58			0					
5-21-28	2	9.386	1	No chart		.02	No chart			70	58			0					
5-21-28	3	10.711	1	No chart		.02	No chart			70	58			0					
5-21-28	5	5.532	1	No chart		.02	No chart			70	58			0					
5-21-28	6	6.044	1	No chart		.02	No chart			70	58			0					
6-4-28	1	11.530	1	6:00P	30	.40	2.40	1.36	.80	80	52			0					
6-4-28	2	9.386	1	6:00P	30	.40	2.40	1.36	.80	80	52			0					
6-4-28	3	10.711	1	6:00P	30	.40	2.40	1.36	.80	80	52			0					
6-4-28	5	5.532	1	6:00P	30	.40	2.40	1.36	.80	80	52			0					
6-4-28	6	6.044	1	6:00P	30	.40	2.40	1.36	.80	80	52			0					
6-10-28	1	11.530	1	4:20A	25	.08	.48	.24	.12	81	62			0					
6-10-28	2	9.386	1	4:20A	25	.08	.48	.24	.12	81	62			0					
6-10-28	3	10.711	1	4:20A	25	.08	.48	.24	.12	81	62			0					
6-10-28	5	5.532	1	4:20A	25	.08	.48	.24	.12	81	62			0					
6-10-28	6	6.044	1	4:20A	25	.08	.48	.24	.12	81	62			0					
6-11-28	1	11.530	1	8:05P	35	.93	3.12	2.96	1.76	86	60	8:10P	1:30A	.36	2.9	8:35P	.57		
6-11-28	2	9.386	1	8:05P	35	.93	3.12	2.96	1.76	86	60	8:30P	12:05A	.20	1.9	8:50P	.73		
6-11-28	3	10.711	1	8:05P	35	.93	3.12	2.96	1.76	86	60	8:15P	1:20A	.34	3.2	8:25P	.59		
6-11-28	5	5.532	1	8:05P	35	.93	3.12	2.96	1.76	86	60	8:35P	1:20A	.45	4.1	8:45P	.48		
6-11-28	6	6.044	1	8:05P	35	.93	3.12	2.96	1.76	86	60	8:30P	11:20P	.08	0.5	8:45P	.85		
6-24-28	1	11.530	1	No chart		.07	No chart			90	63			0					
6-24-28	2	9.386	1	No chart		.07	No chart			90	63			0					
6-24-28	3	10.711	1	No chart		.07	No chart			90	63			0					
6-24-28	5	5.532	1	No chart		.07	No chart			90	63			0					
6-24-28	6	6.044	1	No chart		.07	No chart			90	63			0					
6-27-28	1	11.530	1	1:00P	30	.12	.24	.16	.24	100	64			0					
6-27-28	2	9.386	1	1:00P	30	.12	.24	.16	.24	100	64			0					
6-27-28	3	10.711	1	1:00P	30	.12	.24	.16	.24	100	64			0					
6-27-28	5	5.532	1	1:00P	30	.12	.24	.16	.24	100	64			0					
6-27-28	6	6.044	1	1:00P	30	.12	.24	.16	.24	100	64			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH July, 1928

SHEET 15 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-8-28	1	11.530	1	No chart		.21	No chart			93	63			0					
7-8-28	2	9.386	1	No chart		.21	No chart			93	63			0					
7-8-28	3	10.711	1	No chart		.21	No chart			93	63			0					
7-8-28	5	5.532	1	No chart		.21	No chart			93	63			0					
7-8-28	6	6.044	1	No chart		.21	No chart			93	63			0					
7-17-28	1	11.530	1	6:10P	30	.78	2.88	2.20	1.56	100	63	6:20P	10:40P	.10	1.0	6:55P	.68		
7-17-28	2	9.386	1	6:10P	30	.78	2.88	2.20	1.56	100	63	6:30P	9:00P	.08	0.7	6:40P	.70		
7-17-28	3	10.711	1	6:10P	30	.78	2.88	2.20	1.56	100	63	6:15P	10:10P	.07	0.5	6:35P	.71		
7-17-28	5	5.532	1	6:10P	30	.78	2.88	2.20	1.56	100	63	6:30P	9:55P	.22	2.3	6:40P	.56		
7-17-28	6	6.044	1	6:10P	30	.78	2.88	2.20	1.56	100	63			0			.78		
7-21-28	1	11.530	1	9:40P	350	.27	.24	.16	.08	86	68			0					
7-21-28	2	9.386	1	9:40P	350	.27	.24	.16	.08	86	68			0					
7-21-28	3	10.711	1	9:40P	350	.27	.24	.16	.08	86	68			0					
7-21-28	5	5.532	1	9:40P	350	.27	.24	.16	.08	86	68			0					
7-21-28	6	6.044	1	9:40P	350	.27	.24	.16	.08	86	68			0					
7-22-28	1	11.530	1	8:00P	240		3.60	2.24	1.46	85	69								
7-23-28	1	11.530	1	1:00A	80	1.65	.84	.36	.14	82	65	8:20P	2:30A	.53	5.0	9:00P	1.12		
7-22-28	2	9.386	1	8:00P	240		3.60	2.24	1.46	85	69								
7-23-28	2	9.386	1	1:00A	80	1.65	.84	.36	.14	82	65	8:15P	12:20A	.43	2.9	8:45P	1.22		
7-22-28	3	10.711	1	8:00P	240		3.60	2.24	1.46	85	69								
7-23-28	3	10.711	1	1:00A	80	1.65	.84	.36	.14	82	65	8:25P	4:20A	.49	2.5	9:00P	1.16		
7-22-28	5	5.532	1	8:00P	240		3.60	2.24	1.46	85	69								
7-23-28	5	5.532	1	1:00A	80	1.65	.84	.36	.14	82	65	8:25P	5:15A	.65	4.7	8:45P	.80		
7-22-28	6	6.044	1	8:00P	240		3.60	2.24	1.46	85	69								
7-23-28	6	6.044	1	1:00A	80	1.65	.84	.36	.14	82	65	8:40P	3:40A	.19	0.6	9:00P	1.46		
7-24-28	1	11.530	1	2:00A	55	.32	.84	.48	.32	76	65			0					
7-24-28	2	9.386	1	2:00A	55	.32	.84	.48	.32	76	65			0					
7-24-28	3	10.711	1	2:00A	55	.32	.84	.48	.32	76	65			0					
7-24-28	5	5.532	1	2:00A	55	.32	.84	.48	.32	76	65			0					
7-24-28	6	6.044	1	2:00A	55	.32	.84	.48	.32	76	65			0					
7-25-28	1	11.530	1	7:40A	260	.26	.48	.32	.20	83	68			0					
7-25-28	1	11.530	1	5:30P	60	.12	.24	.16	.12	83	68			0					
7-25-28	1	11.530	1	10:00P	480	.19	.24	.16	.10	83	68			0					
7-25-28	2	9.386	1	7:40A	260	.26	.48	.32	.20	83	68			0					
7-25-28	2	9.386	1	5:30P	60	.12	.24	.16	.12	83	68			0					
7-25-28	2	9.386	1	10:00P	480	.19	.24	.16	.10	83	68			0					
7-25-28	3	10.711	1	7:40A	260	.26	.48	.32	.20	83	68			0					
7-25-28	3	10.711	1	5:30P	60	.12	.24	.16	.12	83	68			0					
7-25-28	3	10.711	1	10:00P	480	.19	.24	.16	.10	83	68			0					
7-25-28	5	5.532	1	7:40A	260	.26	.48	.32	.20	83	68			0					
7-25-28	6	5.532	1	5:30P	60	.12	.24	.16	.12	83	68			0					

Form S. C. S.-245

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month July & August, 1928

Project Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 14 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate				
															Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-25-28	5	5.532	1	10:00P	480	.19	.24	.16	.10	83	68			0					
7-25-28	6	6.044	1	7:40P	260	.26	.48	.32	.20	83	68			0					
7-25-28	6	6.044	1	5:30P	60	.12	.24	.16	.12	83	68			0					
7-25-28	6	6.044	1	10:00P	480	.19	.24	.16	.10	83	68			0					
7-26-28	1	11.530	1	8:00A	120	.13	.24	.16	.08	85	65			0					
7-26-28	2	9.386	1	8:00A	120	.13	.24	.16	.08	85	65			0					
7-26-28	3	10.711	1	8:00A	120	.13	.24	.16	.08	85	65			0					
7-26-28	5	5.532	1	8:00A	120	.13	.24	.16	.08	85	65			0					
7-26-28	6	6.044	1	8:00A	120	.13	.24	.16	.08	85	65			0					
7-27-28	1	11.530	1	No chart		.02	No chart			87	66			0					
7-27-28	2	9.386	1	No chart		.02	No chart			87	66			0					
7-27-28	3	10.711	1	No chart		.02	No chart			87	66			0					
7-27-28	5	5.532	1	No chart		.02	No chart			87	66			0					
7-27-28	6	6.044	1	No chart		.02	No chart			87	66			0					
7-28-28	1	11.530	1	No chart		.05	No chart			85	65			0					
7-28-28	2	9.386	1	No chart		.05	No chart			85	65			0					
7-28-28	3	10.711	1	No chart		.05	No chart			85	65			0					
7-28-28	5	5.532	1	No chart		.05	No chart			85	65			0					
7-28-28	6	6.044	1	No chart		.06	No chart			85	65			0					
7-30-28	1	11.530	1	3:05P	55	.83	2.40	1.64	1.00	88	66	3:40P	7:10P	.39	3.4	4:30P	.44		
7-30-28	2	9.386	1	3:05P	55	.83	2.40	1.64	1.00	88	66	3:25P	9:20P	.30	2.3	3:45P	.53		
7-30-28	3	10.711	1	3:05P	55	.83	2.40	1.64	1.00	88	66	3:40P	8:40P	.35	3.0	4:05P	.48		
7-30-28	5	5.532	1	3:05P	55	.83	2.40	1.64	1.00	88	66	3:30P	8:10P	.58	4.6	3:40P	.25		
7-30-28	6	6.044	1	3:05P	55	.83	2.40	1.64	1.00	88	66	3:35P	8:50P	.15	0.8	3:50P	.68		
7-31-28	1	11.530	1	5:50P	20	.32	1.44	1.08	.54	90	68	6:10P	12:00M	.14	1.0	6:30P	.18		
7-31-28	2	9.386	1	5:50P	20	.32	1.44	1.08	.54	90	68	6:00P	9:00P	.09	0.7	6:20P	.23		
7-31-28	3	10.711	1	5:50P	20	.32	1.44	1.08	.54	90	68	6:06P	11:40P	.13	.90	6:30P	.19		
7-31-28	5	5.532	1	5:50P	20	.32	1.44	1.08	.54	90	68	6:00P	8:10P	.16	1.6	6:20P	.16		
7-31-28	6	6.044	1	5:50P	20	.32	1.44	1.08	.54	90	68	6:05P	8:00P	.03	0.2	6:20P	.29		
8-3-28	1	11.530	1	No chart		.02	No chart			88	67			0					
8-3-28	2	9.386	1	No chart		.02	No chart			88	67			0					
8-3-28	3	10.711	1	No chart		.02	No chart			88	67			0					
8-3-28	5	5.532	1	No chart		.02	No chart			88	67			0					
8-3-28	6	6.044	1	No chart		.02	No chart			88	67			0					
8-4-28	1	11.530	1	3:45P	135	1.21	3.12	2.68	2.12	87	63	4:55P	8:40P	.59	5.7	5:30P	.62		
8-4-28	2	9.386	1	3:45P	135	1.21	3.12	2.68	2.12	87	63	4:45P	8:40P	.45	3.6	5:10P	.76		
8-4-28	3	10.711	1	3:45P	135	1.21	3.12	2.68	2.12	87	63	4:45P	8:20P	.47	4.8	5:15P	.74		
8-4-28	5	5.532	1	3:45P	135	1.21	3.12	2.68	2.12	87	63	4:50P	8:20P	.76	5.6	5:15P	.45		
8-4-28	6	6.044	1	3:45P	135	1.21	3.12	2.68	2.12	87	63	4:55P	8:40P	.22	0.9	5:15P	.99		

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH August, Sept., , 1928

SHEET 15 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F)		RUN-OFF					RAINFALL MINUS RUN-OFF (Inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu ft sec	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-10-28	1	11.530	1	5:10P	350	.83	2.40	1.52	.80	89	68			0					
8-10-28	2	9.386	1	5:10P	350	.83	2.40	1.52	.80	89	68			0					
8-10-28	3	10.711	1	5:10P	350	.83	2.40	1.52	.80	89	68			0					
8-10-28	5	5.532	1	5:10P	350	.83	2.40	1.52	.80	89	68			0					
8-10-28	6	6.044	1	5:10P	350	.83	2.40	1.52	.80	89	68			0					
8-17-28	1	11.530	1	7:00A	180	.46	.96	.64	.44	86	70			0					
8-17-28	2	9.386	1	7:00A	180	.46	.96	.64	.44	86	70			0					
8-17-28	3	10.711	1	7:00A	180	.46	.96	.64	.44	86	70			0					
8-17-28	5	5.532	1	7:00A	180	.46	.96	.64	.44	86	70			0					
8-17-28	6	6.044	1	7:00A	180	.46	.96	.64	.44	86	70			0					
8-18-28	1	11.530	1	3:30P	210	.70	.72	.40	.32	94	65			0					
8-18-28	2	9.386	1	3:30P	210	.70	.72	.40	.32	94	65			0					
8-18-28	3	10.711	1	3:30P	210	.70	.72	.40	.32	94	65			0					
8-18-28	5	5.532	1	3:30P	210	.70	.72	.40	.32	94	65			0					
8-18-28	6	6.044	1	3:30P	210	.70	.72	.40	.32	94	65			0					
8-19-28	1	11.530	1	12:10P	70	.15	.24	.24	.14	87	66			0					
8-19-28	2	9.386	1	12:10P	70	.15	.24	.24	.14	87	66			0					
8-19-28	3	10.711	1	12:10P	70	.15	.24	.24	.14	87	66			0					
8-19-28	5	5.532	1	12:10P	70	.15	.24	.24	.14	87	66			0					
8-19-28	6	6.044	1	12:10P	70	.15	.24	.24	.14	87	66			0					
8-24-28	1	11.530	1	No chart		.05	No chart			86	63			0					
8-24-28	2	9.386	1	No chart		.05	No chart			86	63			0					
8-24-28	3	10.711	1	No chart		.05	No chart			86	63			0					
8-24-28	5	5.532	1	No chart		.05	No chart			86	63			0					
8-24-28	6	6.044	1	No chart		.05	No chart			86	63			0					
8-25-28	1	11.530	1	No chart		.35	No chart			80	54			0					
8-25-28	2	9.386	1	No chart		.35	No chart			80	54			0					
8-25-28	3	10.711	1	No chart		.35	No chart			80	54			0					
8-25-28	5	5.532	1	No chart		.35	No chart			80	54			0					
8-25-28	6	6.044	1	No chart		.35	No chart			80	54			0					
8-30-28	1	11.530	1	10:20A	40	.20	.48	.32	.24	96	70			0					
8-30-28	2	9.386	1	10:20A	40	.20	.48	.32	.24	96	70			0					
8-30-28	3	10.711	1	10:20A	40	.20	.48	.32	.24	96	70			0					
8-30-28	5	5.532	1	10:20A	40	.20	.48	.32	.24	96	70			0					
8-30-28	6	6.044	1	10:20A	40	.20	.48	.32	.24	96	70			0					
9-5-28	1	11.530	1	No chart		.05	No chart			87	54			0					
9-5-28	2	9.386	1	No chart		.05	No chart			87	54			0					
9-5-28	3	10.711	1	No chart		.05	No chart			87	54			0					
9-5-28	5	5.532	1	No chart		.05	No chart			87	54			0					
9-5-28	6	6.044	1	No chart		.05	No chart			87	54			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month October, 19 28

Sheet 16 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-3-28	1	11.530	1	10:30 A	30	.08	.24	.16	.16	92	51			0					
10-3-28	1	11.530	1	4:40P	40	.35	1.44	.48	.52	92	51			0					
10-3-28	2	9.386	1	10:30A	30	.08	.24	.16	.16	92	51			0					
10-3-28	2	9.386	1	4:40P	40	.35	1.44	.48	.52	92	51			0					
10-3-28	3	10.711	1	10:30A	30	.08	.24	.16	.16	92	51			0					
10-3-28	3	10.711	1	4:40P	40	.35	1.44	.48	.52	92	51			0					
10-3-28	5	5.532	1	10:30A	30	.08	.24	.16	.16	92	51			0					
10-3-28	5	5.532	1	4:40P	40	.35	1.44	.48	.52	92	51			0					
10-3-28	6	6.044	1	10:30A	30	.08	.24	.16	.16	92	51			0					
10-3-28	6	6.044	1	4:40P	40	.35	1.44	.48	.52	92	51			0					
10-15-28	1	11.530	1	4:20A	15	.10	.72	.40	.20	87	60			0					
10-15-29	2	9.396	1	4:20A	15	.10	.72	.40	.20	87	60			0					
10-15-28	3	10.711	1	4:20A	15	.10	.72	.40	.20	87	60			0					
10-15-29	5	5.532	1	4:20A	15	.10	.72	.40	.20	87	60			0					
10-15-28	6	6.044	1	4:20A	15	.10	.72	.40	.20	87	60			0					
10-27-28	1	11.530	1	No chart		.02	No chart			84	54			0					
10-27-28	2	9.386	1	No chart		.02	No chart			84	54			0					
10-27-28	3	10.711	1	No chart		.02	No chart			84	54			0					
10-27-28	5	5.532	1	No chart		.02	No chart			84	54			0					
10-27-28	6	6.044	1	No chart		.02	No chart			84	54			0					
10-28-28	1	11.530	1	No chart		.02	No chart			78	55			0					
10-28-28	2	9.386	1	No chart		.02	No chart			78	55			0					
10-28-28	3	10.711	1	No chart		.02	No chart			78	55			0					
10-28-28	5	5.532	1	No chart		.02	No chart			78	55			0					
10-28-28	6	6.044	1	No chart		.02	No chart			78	55			0					
10-29-28	1	11.530	1	No chart		.04	No chart			70	43			0					
10-29-28	2	9.386	1	No chart		.04	No chart			70	43			0					
10-29-28	3	10.711	1	No chart		.04	No chart			70	43			0					
10-29-28	5	5.532	1	No chart		.04	No chart			70	43			0					
10-29-28	6	6.044	1	No chart		.04	No chart			70	43			0					
10-30-28	1	11.530	1	8:30A	1240	.69	No chart			45	40			0					The rain gage stuck and refused to weigh the rain fall. The chart was removed and the scales touched then it weighed properly. This was a continous drizzle through out the rail period.
10-30-28	2	9.386	1	8:30A	1240	.69	No chart			45	40			0					
10-30-28	3	10.711	1	8:30A	1240	.69	No chart			45	40			0					
10-30-28	5	5.532	1	8:30A	1240	.69	No chart			45	40			0					
10-30-28	6	6.044	1	8:30A	1240	.69	No chart			45	40			0					
10-31-28	1	11.530	1	No chart		.07	No chart			57	40			0					
10-31-28	2	9.386	1	No chart		.07	No chart			57	40			0					
10-31-28	3	10.711	1	No chart		.07	No chart			57	40			0					
10-31-28	5	5.532	1	No chart		.07	No chart			57	40			0					
10-31-28	6	6.044	1	No chart		.07	No chart			57	40			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month Nov., Dec. , 128

Sheet 17 of 996 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off			Maximum Rate		Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
11-1-28	1	11.530	1		No chart	.52		No chart		60	45			0					
11-1-28	2	9.386	1		No chart	.52		No chart		60	45			0					
11-1-28	3	10.711	1		No chart	.52		No chart		60	45			0					
11-1-28	5	5.532	1		No chart	.52		No chart		60	45			0					
11-1-28	6	6.044	1		No chart	.52		No chart		60	45			0					
11-5-28	1	11.530	1		No chart	.01		No chart		54	31			0					
11-5-28	2	9.386	1		No chart	.01		No chart		54	31			0					
11-5-28	3	10.711	1		No chart	.01		No chart		54	31			0					
11-5-28	5	5.532	1		No chart	.01		No chart		54	31			0					
11-5-28	6	6.044	1		No chart	.01		No chart		54	31			0					
11-9-28	1	11.530	1		No chart	.01		No chart		68	40			0					
11-9-28	2	9.386	1		No chart	.01		No chart		68	40			0					
11-9-28	3	10.711	1		No chart	.01		No chart		68	40			0					
11-9-28	5	5.532	1		No chart	.01		No chart		68	40			0					
11-9-28	6	6.044	1		No chart	.01		No chart		68	40			0					
11-14-28	1	11.530	1	10:10P	80	.82	1.44	2.04	1.28	71	49			0					
11-14-28	2	9.386	1	10:10P	80	.82	1.44	2.04	1.28	71	49			0					
11-14-28	3	10.711	1	10:10P	80	.82	1.44	2.04	1.28	71	49			0					
11-14-28	5	5.532	1	10:10P	80	.82	1.44	2.04	1.28	71	49			0					
11-14-28	6	6.044	1	10:10P	80	.82	1.44	2.04	1.28	71	49			0					
11-25-28	1	11.530	1		No chart	.03		No chart		48	33			0					
11-25-28	2	9.386	1		No chart	.03		No chart		48	33			0					
11-25-28	3	10.711	1		No chart	.03		No chart		48	33			0					
11-25-28	5	5.532	1		No chart	.03		No chart		48	33			0					
11-25-28	6	6.044	1		No chart	.03		No chart		48	33			0					
11-29-28	1	11.530	1		No chart	.04		No chart		60	36			0					
11-29-28	2	9.386	1		No chart	.04		No chart		60	36			0					
11-29-28	3	10.711	1		No chart	.04		No chart		60	36			0					
11-29-28	5	5.532	1		No chart	.04		No chart		60	36			0					
11-29-28	6	6.044	1		No chart	.04		No chart		60	36			0					
12-7-28	1	11.530	1		No chart	.20		No chart		55	31			0					
12-7-28	2	9.386	1		No chart	.20		No chart		55	31			0					
12-7-28	3	10.711	1		No chart	.20		No chart		55	31			0					
12-7-28	5	5.532	1		No chart	.20		No chart		55	31			0					
12-7-28	6	6.044	1		No chart	.20		No chart		55	31			0					
12-9-28	1	11.530	1		No chart	.05		No chart		58	34			0					
12-9-28	2	9.386	1		No chart	.05		No chart		58	34			0					
12-9-28	3	10.711	1		No chart	.05		No chart		58	34			0					
12-9-28	5	5.532	1		No chart	.05		No chart		58	34			0					
12-9-28	6	6.044	1		No chart	.05		No chart		58	34			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Dec., Jan., Feb., Mar., 29-29

SHEET 18 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
12-16-28	1	11.530	1	No chart		.08		No chart		56	39			0					
12-16-28	2	9.386	1	No chart		.08		No chart		56	39			0					
12-16-28	3	10.711	1	No chart		.08		No chart		56	39			0					
12-16-28	5	5.532	1	No chart		.08		No chart		56	39			0					
12-16-28	6	6.044	1	No chart		.08		No chart		56	39			0					
1929																			
1-9-29	1	11.530	1	6:20P	340	.27	.84	.36	.20	60	38			0					
1-9-29	2	9.386	1	6:20P	340	.27	.84	.36	.20	60	38			0					
1-9-29	3	10.711	1	6:20P	340	.27	.84	.36	.20	60	38			0					
1-9-29	5	5.532	1	6:20P	340	.27	.84	.36	.20	60	38			0					
1-9-29	6	6.044	1	6:20P	240	.27	.84	.36	.20	60	38			0					
2-3-29	1	11.530	1	9:30A	30	.09	.12	.04	.02	54	32			0					
2-3-29	2	9.386	1	9:30A	30	.09	.12	.04	.02	54	32			0					
2-3-29	3	10.711	1	9:30A	30	.09	.12	.04	.02	54	32			0					
2-3-29	5	5.532	1	9:30A	30	.09	.12	.04	.02	54	32			0					
2-3-29	6	6.044	1	9:30A	30	.09	.12	.04	.02	54	32			0					
2-5-29	1	11.530	1	No chart		.01		No chart		42	35			0					
2-5-29	2	9.386	1	No chart		.01		No chart		42	35			0					
2-5-29	3	10.711	1	No chart		.01		No chart		42	35			0					
2-5-29	5	5.532	1	No chart		.01		No chart		42	35			0					
2-5-29	6	6.044	1	No chart		.01		No chart		42	35			0					
2-9-29	1	11.530	1	No chart		.10		No chart		28	10			0					
2-9-29	2	9.386	1	No chart		.10		No chart		28	10			0					
2-9-29	3	10.711	1	No chart		.10		No chart		28	10			0					
2-9-29	5	5.532	1	No chart		.10		No chart		28	10			0					
2-9-29	6	6.044	1	No chart		.10		No chart		28	10			0					
2-15-29	1	11.530	1	No chart		.01		No chart		39	27			0					
2-15-29	2	9.386	1	No chart		.01		No chart		39	27			0					
2-15-29	3	10.711	1	No chart		.01		No chart		39	27			0					
2-15-29	5	5.532	1	No chart		.01		No chart		39	27			0					
2-15-29	6	6.044	1	No chart		.01		No chart		39	27			0					
3-27-29	1	11.530	1	10:05A	50	.04				56	41			0					
3-27-29	2	9.386	1	10:05A	50	.04				56	41			0					
3-27-29	3	10.711	1	10:05A	50	.04				56	41			0					
3-27-29	5	5.532	1	10:05A	50	.04				56	41			0					
3-27-29	6	6.044	1	10:05A	50	.04				56	41			0					
3-28-29	1	11.530	1	9:55A	1265	1.45		No chart		57	40			0					
3-28-29	2	9.386	1	9:55A	1265	1.45		No chart		57	40			0					
3-28-29	3	10.711	1	9:55A	1265	1.45		No chart		57	40			0					
3-28-29	5	5.532	1	9:55A	1265	1.45		No chart		57	40			0					

Form S. C. S.-343

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month March, April, May, 19 29

Sheet 19 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Load (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-28-29	6	6.044	1	9:55A	1265	1.45		No chart		57	40			0					
4-19-29	1	11.530	1	No chart		.02		No chart		93	59			0					
4-19-29	2	9.386	1	No chart		.02		No chart		93	59			0					
4-19-29	3	10.711	1	No chart		.02		No chart		93	59			0					
4-19-29	5	5.532	1	No chart		.02		No chart		93	59			0					
4-19-29	6	6.044	1	No chart		.02		No chart		93	59			0					
5-11-29	1	11.530	1	10:40P	80		4.08	2.16	1.44	92	69								Runoff from Station annual report.
5-12-29	1	11.530	1	12:00M	490	1.25	1.44	.58	.44	75	55			.08	Runoff chart not available		1.17		
5-11-29	2	9.386	1	10:40P	80		4.08	2.16	1.44	92	69								
5-12-29	2	9.386	1	12:00N	490	1.25	1.44	.58	.44	75	55			.37	" "		.88		
5-11-29	3	10.711	1	10:40P	80		4.08	2.16	1.44	92	69								
5-12-29	3	10.711	1	12:00M	490	1.25	1.44	.58	.44	75	55			.07	" "		1.18		
5-11-29	5	5.532	1	10:40P	80		4.08	2.16	1.44	92	69								
5-12-29	5	5.532	1	12:00M	490	1.25	1.44	.58	.44	75	55			.10	" "		1.15		
5-11-29	6	6.044	1	10:40P	80		4.08	2.16	1.44	92	69								
5-12-29	6	6.044	1	12:00M	490	1.25	1.44	.58	.44	75	55			0	" "		1.26		
5-13-29	1	11.530	1	No chart		.05		No chart		71	57			0					
5-13-29	2	9.386	1	No chart		.05		No chart		71	57			0					
5-13-29	3	10.711	1	No chart		.05		No chart		71	57			0					
5-13-29	5	5.532	1	No chart		.05		No chart		71	57			0					
5-13-29	6	6.044	1	No chart		.05		No chart		71	57			0					
5-17-29	1	11.530	1	3:40A	140	.14) .75	.24	.16	.16	74	56				Run off chart				
5-18-29	1	11.530	1	8:00A	370	.61)	2.40	1.20	.60	74	56			.03	not available		.72		Runoff from station annual report.
5-17-29	2	9.386	1	3:40A	140	.14) .75	.24	.16	.16	74	56								
5-18-29	2	9.386	1	8:00A	370	.61)	2.40	1.20	.60	74	56			.01	" "		.71		
5-17-29	3	10.711	1	3:40A	140	.14) .75	.24	.16	.16	74	56								
5-18-29	3	10.711	1	8:00A	370	.61)	2.40	1.20	.60	74	56			.03	" "		.72		
5-17-29	5	5.532	1	3:40A	140	.14) .75	.24	.16	.16	74	56								
5-18-29	5	5.532	1	8:00A	370	.61)	2.40	1.20	.60	74	56			.04	" "		.71		
5-17-29	6	6.044	1	3:40A	140	.14) .75	.24	.16	.16	74	56								
5-18-29	6	6.044	1	8:00A	370	.61)	2.40	1.20	.60	74	56			0	" "		.75		
5-22-29	1	11.530	1	No chart		.02		No chart		75	58			0					
5-22-29	2	9.386	1	No chart		.02		No chart		75	58			0					
5-22-29	3	10.711	1	No chart		.02		No chart		75	58			0					
5-22-29	5	5.532	1	No chart		.02		No chart		75	58			0					
5-22-29	6	6.044	1	No chart		.02		No chart		75	58			0					
5-23-29	1	11.530	1	No chart		.03		No chart		72	56			0					
5-23-29	2	9.386	1	No chart		.03		No chart		72	56			0					
5-23-29	3	10.711	1	No chart		.03		No chart		72	56			0					
5-23-29	5	5.532	1	No chart		.03		No chart		72	56			0					
5-23-29	6	6.044	1	No chart		.03		No chart		72	56			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month May & June & July, 1929

Project Spur, Texas.

Sheet 29 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-24-29	1	11.530	1	3:30A	210	.21	.36	.16	.06	75	57			0					
5-24-29	2	9.386	1	3:30A	210	.21	.36	.16	.06	75	57			0					
5-24-29	3	10.711	1	3:30A	210	.21	.36	.16	.06	75	57			0					
5-24-29	5	5.532	1	3:30A	210	.21	.36	.16	.06	75	57			0					
5-24-29	6	6.044	1	3:30A	210	.21	.36	.16	.06	75	57			0					
5-25-29	1	11.530	1	No chart		.05	No chart			82	58			0					
5-25-29	2	9.386	1	No chart		.05	No chart			82	58			0					
5-25-29	3	10.711	1	No chart		.05	No chart			82	58			0					
5-25-29	5	5.532	1	No chart		.05	No chart			82	58			0					
5-25-29	6	6.044	1	No chart		.05	No chart			82	58			0					
5-30-29	1	11.530	1	10:20A	90	.44	1.20	.56	.40	85	55			0					
5-30-29	2	9.386	1	10:20A	90	.44	1.20	.56	.40	85	55			0					
5-30-29	3	10.711	1	10:20A	90	.44	1.20	.56	.40	85	55			0					
5-30-29	5	5.532	1	10:20A	90	.44	1.20	.56	.40	85	55			0					
5-30-29	6	6.044	1	10:20A	90	.44	1.20	.56	.40	85	55			0					
6-6-29	1	11.530	1	No chart		.13	No chart			90	58			0					
6-6-29	2	9.386	1	No chart		.13	No chart			90	58			0					
6-6-29	3	10.711	1	No chart		.13	No chart			90	58			0					
6-6-29	5	5.532	1	No chart		.13	No chart			90	58			0					
6-6-29	6	6.044	1	No chart		.13	No chart			90	58			0					
6-7-29	1	11.530	1	7:40P	100	.77	3.84	2.40	1.26	94	61	8:35P	7:40A	.62	3.6	9:00P	.15		
6-7-29	2	9.386	1	7:40P	100	.77	3.84	2.40	1.26	94	61	8:15P	8:05A	.54	3.7	8:30P	.23		
6-7-29	3	10.711	1	7:40P	100	.77	3.84	2.40	1.26	94	61	8:25P	6:00A	.55	3.3	8:50P	.22		
6-7-29	5	5.532	1	7:40P	100	.77	3.84	2.40	1.26	94	61	8:40P	3:00A	.45	3.3	8:55P	.32		
6-7-29	6	6.044	1	7:40P	100	.77	3.84	2.40	1.36	94	61	8:20P	1:10A	.04	0.1	9:00P	.73		
6-11-29	1	11.530	1	No chart		.03	No chart			104	66			0					
6-11-29	2	9.386	1	No chart		.03	No chart			104	66			0					
6-11-29	3	10.711	1	No chart		.03	No chart			104	66			0					
6-11-29	5	5.532	1	No chart		.03	No chart			104	66			0					
6-11-29	6	6.044	1	No chart		.03	No chart			104	66			0					
6-22-29	1	11.530	1	11:25P	15	.30	2.40	1.20	.60	104	64			0					
6-22-29	2	9.386	1	11:25P	15	.30	2.40	1.20	.60	104	64			0					
6-22-29	3	10.711	1	11:25P	15	.30	2.40	1.20	.60	104	64			0					
6-22-29	5	5.532	1	11:25P	15	.30	2.40	1.20	.60	104	64			0					
6-22-29	6	6.044	1	11:25P	15	.30	2.40	1.20	.60	104	64			0					
7-1-29	1	11.530	1	No chart		.06	No chart			99	74			0					
7-1-29	2	9.386	1	No chart		.06	No chart			99	74			0					
7-1-29	3	10.711	1	No chart		.06	No chart			99	74			0					
7-1-29	5	5.532	1	No chart		.06	No chart			99	74			0					
7-1-29	6	6.044	1	No chart		.06	No chart			99	74			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month July & August, 1929

Sheet 21 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu ft sec.	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-2-29	1	11.530	1	4:30P	10	.06	.49 .24			94	68			0					
7-2-29	1	11.530	1	8:25P	470	.43	2.16	1.04	.56	94	68			0					
7-2-29	2	9.386	1	4:30P	10	.06	.49 .24			94	68			.03	Runoff chart not				Runoff from station annual report
7-2-29	2	9.386	1	8:25P	470	.43	2.16	1.04	.56	94	68			0	available				
7-2-29	3	10.711	1	4:30P	10	.06	.49 .24			94	68			0					
7-2-29	3	10.711	1	8:25P	470	.43	2.16	1.04	.56	94	68			0					
7-2-29	5	5.532	1	4:30P	10	.06	.49 .24			94	68			0					
7-2-29	5	5.532	1	8:25P	470	.43	2.16	1.04	.56	94	68			0					
7-2-29	6	6.044	1	4:30P	10	.06	.49 .24			94	68			0					
7-2-29	6	6.044	1	8:25P	470	.43	2.16	1.04	.56	94	68			0					
7-19-29	1	11.530	1	7:15A	55	.26	1.20	.56	.44	95	70			0					
7-19-29	2	9.386	1	7:15A	55	.26	1.20	.56	.44	95	70			0					
7-19-29	3	10.711	1	7:15A	55	.26	1.20	.56	.44	95	70			0					
7-19-29	5	5.532	1	7:15A	55	.26	1.20	.56	.44	95	70			0					
7-19-29	6	6.044	1	7:15A	55	.26	1.20	.56	.44	95	70			0					
7-20-29	1	11.530	1	4:40P	40	.36	1.20	.72	.48	91	71			0					
7-20-29	2	9.386	1	4:40P	40	.36	1.20	.72	.48	91	71			0					
7-20-29	3	10.711	1	4:40P	40	.36	1.20	.72	.48	91	71			0					
7-20-29	5	5.532	1	4:40P	40	.36	1.20	.72	.48	91	71			0					
7-20-29	6	6.044	1	4:40P	40	.36	1.20	.72	.48	91	71			0					
8-8-29	1	11.530	1	No chart		.03	No chart			97	67			0					
8-8-29	2	9.386	1	No chart		.03	No chart			97	67			0					
8-8-29	3	10.711	1	No chart		.03	No chart			97	67			0					
8-8-29	5	5.532	1	No chart		.03	No chart			97	67			0					
8-8-29	6	6.044	1	No chart		.03	No chart			97	67			0					
8-12-29	1	11.530	1	No chart		.14	No chart			98	70			0					
8-12-29	2	9.386	1	No chart		.14	No chart			98	70			0					
8-12-29	3	10.711	1	No chart		.14	No chart			98	70			0					
8-12-29	5	5.532	1	No chart		.14	No chart			98	70			0					
8-12-29	6	6.044	1	No chart		.14	No chart			98	70			0					
8-13-29	1	11.530	1	6:55P	15	.14	.84	.56	.28	97	68			0					
8-13-29	2	9.386	1	6:55P	15	.14	.84	.56	.28	97	68			0					
8-13-29	3	10.711	1	6:55P	15	.14	.84	.56	.28	97	68			0					
8-13-29	5	5.532	1	6:55P	15	.14	.84	.56	.28	97	68			0					
8-13-29	6	6.044	1	6:55P	15	.14	.84	.56	.28	97	68			0					
8-27-29	1	11.530	1	No chart		.02	No chart			96	73			0					
8-27-29	2	9.386	1	No chart		.02	No chart			96	73			0					
8-27-29	3	10.711	1	No chart		.02	No chart			96	73			0					
8-27-29	5	5.532	1	No chart		.02	No chart			96	73			0					
8-27-29	6	6.044	1	No chart		.02	No chart			96	73			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month ____, September, 1929

Sheet 22 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F)		Run-off					Rainfall minus run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-5-29	1	11.530	1	9:30P	20	.76	5.76	2.84	1.42	99	54			0					
9-5-29	2	9.386	1	9:30P	20	.76	5.76	2.84	1.42	99	54	9:40P	1:20A	.09	1.1	9:55P	.67		
9-5-29	3	10.711	1	9:30P	20	.76	5.76	2.84	1.42	99	54			0					
9-5-29	5	5.532	1	9:30P	20	.76	5.76	2.84	1.42	99	54	9:45P	11:40P	.09	.93	9:55P	.67		
9-5-29	6	6.044	1	9:30P	20	.76	5.76	2.84	1.42	99	54			0					
9-6-29	1	11.530	1	No chart		.03	No chart			78	60			0					
9-6-29	2	9.386	1	No chart		.03	No chart			78	60			0					
9-6-29	3	10.711	1	No chart		.03	No chart			78	60			0					
9-6-29	5	5.532	1	No chart		.03	No chart			78	60			0					
9-6-29	6	6.044	1	No chart		.03	No chart			78	60			0					
9-8-29	1	11.530	1	7:15P	85	.48	.96	.56	.40	88	63			0					
9-8-29	2	9.386	1	7:15P	85	.48	.96	.56	.40	88	63			0					
9-8-29	3	10.711	1	7:15P	85	.48	.96	.56	.40	88	63			0					
9-8-29	5	5.532	1	7:15P	85	.48	.96	.56	.40	88	63			0					
9-8-29	6	6.044	1	7:15P	85	.48	.96	.56	.40	88	63			0					
9-9-29	1	11.530	1	7:00P	150	1.58	9.60	5.36	2.72	82	40			.9 0	Runoff chart not				Runoff from station annual report.
9-9-29	2	9.386	1	7:00P	150	1.58	9.60	5.36	2.72	82	40			.60	available				
9-9-29	3	10.711	1	7:00P	150	1.58	9.60	5.36	2.72	82	40			.95	"	"			
9-9-29	5	5.532	1	7:00P	150	1.58	9.60	5.36	2.72	82	40			1.15	"	"			
9-9-29	6	6.044	1	7:00P	150	1.58	9.60	5.36	2.72	82	40			.42	"	"			
9-10-29	1	11.530	1	5:20A	270	.38	.48	.24	.14	61	50			0					
9-10-29	2	9.386	1	5:20A	270	.38	.48	.24	.14	61	50			0					
9-10-29	3	10.711	1	5:20A	270	.38	.48	.24	.14	61	50			0					
9-10-29	5	5.532	1	5:20A	270	.38	.48	.24	.14	61	50			0					
9-10-29	6	6.044	1	5:20A	270	.38	.48	.24	.14	61	50			0					
9-16-29	1	11.530	1	2:15A	225	.32	.72	.32	.24	82	60			0					
9-16-29	2	9.386	1	2:15A	225	.32	.72	.32	.24	82	60			0					
9-16-29	3	10.711	1	2:15A	225	.32	.72	.32	.24	82	60			0					
9-16-29	5	5.532	1	2:15A	225	.32	.72	.32	.24	82	60			0					
9-16-29	6	6.044	1	2:15A	225	.32	.72	.32	.24	82	60			0					
9-19-29	1	11.530	1	11:30A	40	.14	.72	.40	.24	85	56			0					
9-19-29	2	9.386	1	11:30A	40	.14	.72	.40	.24	85	56			0					
9-19-29	3	10.711	1	11:30A	40	.14	.72	.40	.24	85	56			0					
9-19-29	5	5.532	1	11:30A	40	.14	.72	.40	.24	85	56			0					
9-19-29	6	6.044	1	11:30A	40	.14	.72	.40	.24	85	56			.0					
9-20-29	1	11.530	1	12:50A	20	.05	.24			85	55			0					
9-20-29	2	9.386	1	12:50A	20	.05	.24			85	55			0					
9-20-29	3	10.711	1	12:50A	20	.05	.24			85	55			0					
9-20-29	5	5.532	1	12:50A	20	.05	.24			85	55			0					
9-20-29	6	6.044	1	12:50A	20	.05	.24			85	55			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month October, November, 19 29

Sheet 23 of 59 sheets

Date	Watershed		Rainfall							Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition by Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	Maximum Intensity: 5 minutes (inches per hour)	Maximum Intensity: 15 minutes (inches per hour)	Maximum Intensity: 30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate: Cu. ft. sec.	Maximum Rate: Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-11-29	1	11.530	1	10:50P	70		2.40	2.40	2.20	85	59	11:10P			5.9	11:25P			
10-12-29	1	11.530	1	12:00M	150	1.88	1.08	.84	.60	80	56		4:10A	.71			1.17		
10-11-29	2	9.386	1	10:50P	70		2.40	2.40	2.20	85	59	11:05P			4.8	11:30P			
10-12-29	2	9.386	1	12:00M	150	1.88	1.08	.84	.60	80	56		5:00A	.91			.97		
10-11-29	3	10.711	1	10:50P	70		2.40	2.40	2.20	85	59	11:00P			3.8	11:30P			
10-12-29	3	10.711	1	12:00M	150	1.88	1.08	.84	.60	80	60		4:30A	.68			1.27		
10-11-29	5	5.532	1	10:50P	70		2.40	2.40	2.20	85	59	11:10P			5.5	11:25P			
10-12-29	5	5.532	1	12:00M	150	1.88	1.08	.84	.60	80	60		4:00A	1.6			.28		
10-11-29	6	6.044	1	10:50P	70		2.40	2.40	2.20	85	59	11:20P			1.3	11:30P			
10-12-29	6	6.044	1	12:00M	150	1.88	1.08	.84	.60	80	60		4:20A	.37			1.51		
10-12-29	1	11.530	1	11:10P	50	.53	2.16	1.20	.72	74	61			.14	No runoff chart available				Runoff from station annual report.
10-13-29	1	11.530	1	3:40A	210	.10	.24	VL	VL	74	61								
10-12-29	2	9.386	1	11:10P	50	.53	2.16	1.20	.72	74	61			.16	"	"			
10-13-29	2	9.386	1	3:40A	210	.10	.24	VL	VL	74	61								
10-12-29	3	10.711	1	11:10P	50	.53	2.16	1.20	.72	74	61			.16	"	"			
10-13-29	3	10.711	1	3:40A	210	.10	.24	VL	VL	74	61								
10-12-29	5	5.532	1	11:10P	50	.53	2.16	1.20	.72	74	61			.23	"	"			
10-13-29	5	5.532	1	3:40A	210	.10	.24	VL	VL	74	61								
10-12-29	6	6.044	1	11:10P	50	.53	2.16	1.20	.72	74	61			.09					
10-13-29	6	6.044	1	3:40A	210	.10	.24	VL	VL	74	61								
10-27-29	1	11.530	1	5:00A	120	.32	.48	.24	.32	67	51			0					
10-27-29	2	9.386	1	5:00A	120	.32	.48	.24	.32	67	51			0					
10-27-29	3	10.711	1	5:00A	120	.32	.48	.24	.32	67	51			0					
10-27-29	5	5.532	1	5:00A	120	.32	.48	.24	.32	67	51			0					
10-27-29	6	6.044	1	5:00A	120	.32	.48	.24	.32	67	51			0					
10-28-29	1	11.530	1	9:00A	260	.12	.12	VL	VL	73	49			0					
10-28-29	2	9.386	1	9:00A	260	.12	.12	VL	VL	73	49			0					
10-28-29	3	10.711	1	9:00A	260	.12	.12	VL	VL	72	49			0					
10-28-29	5	5.532	1	9:00A	260	.12	.12	VL	VL	72	49			0					
10-28-29	6	6.044	1	9:00A	260	.12	.12	VL	VL	72	49			0					
10-31-29	1	11.530	1	6:50P	40	.12	.24	VL	VL	66	34			0					
10-31-29	2	9.386	1	6:50P	40	.12	.24	VL	VL	66	34			0					
10-31-29	3	10.711	1	6:50P	40	.12	.24	VL	VL	66	34			0					
10-31-29	5	5.532	1	6:50P	40	.12	.24	VL	VL	66	34			0					
10-31-29	6	6.044	1	6:50P	40	.12	.24	VL	VL	66	34			0					
11-6-29	1	11.530	1	No chart		.02	No chart			71	46			0					
11-6-29	2	9.386	1	No chart		.02	No chart			71	46			0					
11-6-29	3	10.711	1	No chart		.02	No chart			71	46			0					
11-6-29	5	5.532	1	No chart		.02	No chart			71	46			0					
11-6-29	6	6.044	1	No chart		.02	No chart			71	46			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Nov., Dec., Jan., , 1929-30

Project Spur, Texas.

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 24 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
11-8-29	1	11.530	1	5:10A	50	.32	.72	.56	.32	49	39			0					
11-8-29	2	9.386	1	5:10A	50	.32	.72	.56	.32	49	39			0					
11-8-29	3	10.711	1	5:10A	50	.32	.72	.56	.32	49	39			0					
11-8-29	5	5.532	1	5:10A	50	.32	.72	.56	.32	49	39			0					
11-8-29	6	6.044	1	5:10A	50	.32	.72	.56	.32	49	39			0					
11-9-29	1	11.530	1	8:40A	20	.04	.24			55	37			0					
11-9-29	2	9.386	1	8:40A	20	.04	.24			55	37			0					
11-9-29	3	10.711	1	8:40A	20	.04	.24			55	37			0					
11-9-29	5	5.532	1	8:40A	20	.04	.24			55	37			0					
11-9-29	6	6.044	1	8:40A	20	.04	.24			55	37			0					
11-21-29	1	11.530	1	No chart		.02	No chart			37	30			0					
11-21-29	2	9.386	1	No chart		.02	No chart			37	30			0					
11-21-29	3	10.711	1	No chart		.02	No chart			37	30			0					
11-21-29	5	5.532	1	No chart		.02	No chart			37	30			0					
11-21-29	6	6.044	1	No chart		.02	No chart			37	30			0					
12-21-29	1	11.530	1	12:20P	20	.03	.24			39	15			0					
12-21-29	2	9.386	1	12:20P	20	.03	.24			39	15			0					
12-21-29	3	10.711	1	12:20P	20	.03	.24			39	15			0					
12-21-29	5	5.532	1	12:20P	20	.03	.24			39	15			0					
12-21-29	6	6.044	1	12:20P	20	.03	.24			39	15			0					
1-8-30	1	11.530	1	No chart		.15	No chart			31	17			0					
1-8-30	2	9.386	1	No chart		.15	No chart			31	17			0					
1-8-30	3	10.711	1	No chart		.15	No chart			31	17			0					
1-8-30	5	5.532	1	No chart		.15	No chart			31	17			0					
1-8-30	6	6.044	1	No chart		.15	No chart			31	17			0					
1-9-30	1	11.530	1	8:10P	290	.62	.24	.16	.12	29	14			0					
1-9-30	2	9.386	1	8:10P	290	.62	.24	.16	.12	29	14			0					
1-9-30	3	10.711	1	8:10P	290	.62	.24	.16	.12	29	14			0					
1-9-30	5	5.532	1	8:10P	290	.62	.24	.16	.12	29	14			0					
1-9-30	6	6.044	1	8:10P	290	.62	.24	.16	.12	29	14			0					
1-18-30	1	11.530	1	No chart		.04	No chart			26	08			0					
1-18-30	2	9.386	1	No chart		.04	No chart			26	08			0					
1-18-30	3	10.711	1	No chart		.04	No chart			26	08			0					
1-18-30	5	5.532	1	No chart		.04	No chart			26	08			0					
1-18-30	6	6.044	1	No chart		.04	No chart			26	08			0					
1-29-30	1	11.530	1	No chart		.05	No chart			35	24			0					
1-29-30	2	9.386	1	No chart		.05	No chart			35	24			0					
1-29-30	3	10.711	1	No chart		.05	No chart			35	24			0					
1-29-30	5	5.532	1	No chart		.05	No chart			35	24			0					
1-29-30	6	6.044	1	No chart		.05	No chart			35	24			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH March, April , 1930

SHEET 25 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-15-30	1	11.530	1	7:35P	150	.13	.24	VL	VL	77	43			0					
3-15-30	2	9.386	1	7:35P	150	.13	.24	VL	VL	77	43			0					
3-15-30	3	10.711	1	7:35P	150	.13	.24	VL	VL	77	43			0					
3-15-30	5	5.532	1	7:35P	150	.13	.24	VL	VL	77	43			0					
3-15-30	6	6.044	1	7:35P	150	.13	.24	VL	VL	77	43			0					
3-18-30	1	11.530	1	10:30P	15	.05	.24	.20		77	37			0					
3-18-30	2	9.386	1	10:30P	15	.05	.24	.20		77	37			0					
3-18-30	3	10.711	1	10:30P	15	.05	.24	.20		77	37			0					
3-18-30	5	5.532	1	10:30P	15	.05	.24	.20		77	37			0					
3-18-30	6	6.044	1	10:30P	15	.06	.24	.20		77	37			0					
3-26-30	1	11.530	1	10:00A	150	.25	.24	.16	.16	61	31			0					
3-26-30	2	9.386	1	10:00A	150	.26	.24	.16	.16	61	31			0					
3-26-30	3	10.711	1	10:00A	150	.25	.24	.16	.16	61	31			0					
3-26-30	5	5.532	1	10:00A	150	.25	.24	.16	.16	61	31			0					
3-26-30	6	6.044	1	10:00A	150	.25	.24	.15	.16	61	31			0					
4-25-30	1	11.530	1	2:40A	170	.60	1.68	1.60	.84	81	57			0					
4-25-30	2	9.386	1	2:40A	170	.60	1.68	1.60	.84	81	57			0					
4-25-30	3	10.711	1	2:40A	170	.60	1.68	1.60	.84	81	57			0					
4-25-30	5	5.532	1	2:40A	170	.60	1.68	1.60	.84	81	57			0					
4-25-30	6	6.044	1	2:40A	170	.60	1.68	1.60	.84	81	57			0					
4-28-30	1	11.530	1	1:50A	150	.61	.72	.32	.24	83	54			0					
4-28-30	2	9.386	1	1:50A	150	.61	.72	.32	.24	83	54			0					
4-28-30	3	10.711	1	1:50A	150	.61	.72	.32	.24	83	54			0					
4-28-30	5	5.532	1	1:50A	150	.61	.72	.32	.24	83	54			0					
4-28-30	6	6.044	1	1:50A	150	.61	.72	.32	.24	83	54			0					
4-29-30	1	11.530	1	4:20P	40		VL	VL	VL	84	55			0					
4-29-30	1	11.530	1	6:30P	30		VVL	VL	VL	84	55			0					
4-29-30	1	11.530	1	8:20P	220		.24	.16	.12	84	55			0					
4-30-30	1	11.530	1	12:00M	90	.45	VL	VL	VL	83	56			0					
4-29-30	2	9.386	1	4:20P	40		VL	VL	VL	84	55			0					
4-29-30	2	9.386	1	6:30P	30		VL	VL	VL	84	55			0					
4-29-30	2	9.386	1	8:20P	220		.24	.16	.12	84	55			0					
4-30-30	2	9.386	1	12:00M	90	.45	VL	VL	VL	83	56			0					
4-29-30	3	10.711	1	4:20P	40		VL	VL	VL	84	55			0					
4-29-30	3	10.711	1	6:30P	30		VL	VL	VL	84	55			0					
4-29-30	3	10.711	1	8:20P	220		.24	.16	.12	84	55			0					
4-30-30	3	10.711	1	12:00M	90	.45	VL	VL	VL	83	56			0					
4-29-30	5	5.532	1	4:20P	40		VL	VL	VL	84	55			0					
4-29-30	5	5.532	1	6:30P	30		VL	VL	VL	84	55			0					
4-29-30	5	5.532	1	8:20P	220		.24	.16	.12	84	55			0					
4-30-30	5	5.532	1	12:00M	90	.45	VL	VL	VL	83	56			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month April, May, 1930

Sheet 28 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
4-29-30	6	6.044	1	4:20P	40		VL	VL	VL	84	55			0					
4-29-30	6	6.044	1	6:30P	30		VL	VL	VL	84	55			0					
4-29-30	6	6.044	1	8:20P	220		.24	.16	.12	84	55			0					
4-30-30	6	6.044	1	12:00M	90	.45	VL	VL	VL	83	56			0					
5-2-30	1	11.530	1	9:50P	40	.35	1.68	1.28	1.36	80	56	No charts available		0					Runoff from station annual report
5-2-30	2	9.386	1	9:50P	40	.35	1.68	1.28	1.36	80	56	"	"	.07			0.28		
5-2-30	3	10.711	1	9:50P	40	.35	1.68	1.28	1.36	80	56	"	"	0					
5-2-30	5	5.532	1	9:50P	40	.35	1.68	1.28	1.36	80	56	"	"	0					
5-2-30	6	6.044	1	9:50P	40	.35	1.68	1.28	1.36	80	56	"	"	0					
5-3-30	1	11.530	1	8:20P	70	.11	.24	.16	.12	85	58			0					
5-3-30	2	9.386	1	8:20P	70	.11	.24	.16	.12	85	58			0					
5-3-30	3	10.711	1	8:20P	70	.11	.24	.16	.12	85	58			0					
5-3-30	5	5.532	1	8:20P	70	.11	.24	.16	.12	85	58			0					
5-3-30	6	6.044	1	8:20P	70	.11	.24	.16	.12	85	58			0					
5-10-30	1	11.530	1	12:10A	130	.91	.98	.80	.64	84	51	No charts available		0					Runoff from station annual report.
5-10-30	2	9.386	1	12:10A	130	.91	.96	.80	.64	84	51	"	"	.03					
5-10-30	3	10.711	1	12:10A	130	.91	.96	.80	.64	84	51	"	"	0					
5-10-30	5	5.532	1	12:10A	130	.91	.96	.80	.64	84	51	"	"	.10					
5-10-30	6	6.044	1	12:10A	130	.91	.96	.80	.64	84	51	"	"	0					
5-13-30	1	11.530	1	No chart		.02	No chart			76	58			0					
5-13-30	2	9.386	1	No chart		.02	No chart			76	58			0					
5-13-30	3	10.711	1	No chart		.02	No chart			76	58			0					
5-13-30	5	5.532	1	No chart		.02	No chart			76	58			0					
5-13-30	6	6.044	1	No chart		.02	No chart			76	58			0					
5-14-30	1	11.530	1	No chart		.03	No chart			80	61			0					
5-14-30	2	9.386	1	No chart		.03	No chart			80	61			0					
5-14-30	3	10.711	1	No chart		.03	No chart			80	61			0					
5-14-30	5	5.532	1	No chart		.03	No chart			80	61			0					
5-14-30	6	6.044	1	No chart		.03	No chart			80	61			0					
5-29-30	1	11.530	1	No chart		.06	No chart			75	61			0					
5-29-30	2	9.386	1	No chart		.06	No chart			75	61			0					
5-29-30	3	10.711	1	No chart		.06	No chart			75	61			0					
5-29-30	5	5.532	1	No chart		.06	No chart			75	61			0					
5-29-30	6	6.044	1	No chart		.06	No chart			75	61			0					
5-30-30	1	11.530	1	No chart		.06	No chart			78	56			0					
5-30-30	2	9.386	1	No chart		.06	No chart			78	56			0					
5-30-30	3	10.711	1	No chart		.06	No chart			78	56			0					
5-30-30	5	5.532	1	No chart		.06	No chart			78	56			0					
5-30-30	6	6.044	1	No chart		.06	No chart			78	56			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month June, July, Agust, 1930

Sheet 27 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-5-30	1	11.530	1	No chart		.22		No chart		95	70			0					
6-5-30	2	9.386	1	No chart		.22		No chart		95	70			0					
6-5-30	3	10.711	1	No chart		.22		No chart		95	70			0					
6-5-30	5	5.532	1	No chart		.22		No chart		95	70			0					
6-5-30	6	6.044	1	No chart		.22		No chart		95	70			0					
6-8-30	1	11.530	1	No chart		.21		No chart		85	55			0					
6-8-30	2	9.386	1	No chart		.21		No chart		85	55			0					
6-8-30	3	10.711	1	No chart		.21		No chart		85	55			0					
6-8-30	5	5.532	1	No chart		.21		No chart		85	55			0					
6-8-30	6	6.044	1	No chart		.21		No chart		85	55			0					
6-9-30	1	11.530	1	No chart		.51		No chart		84	59	No chart avail-		0					Runoff from station annual report.
6-9-30	2	9.386	1	No chart		.51		No chart		84	59	able		.02			0.49		
6-9-30	3	10.711	1	No chart		.51		No chart		84	59	"	"	0					
6-9-30	5	5.532	1	No chart		.51		No chart		84	59	"	"	0					
6-9-30	6	6.044	1	No chart		.51		No chart		84	59	"	"	0					
6-27-30	1	11.530	1	8:40P	95	.34	1.44	.72	.52	99	67			0					
6-27-30	2	9.386	1	8:40P	95	.34	1.44	.72	.52	99	67			0					
6-27-30	3	10.711	1	8:40P	95	.34	1.44	.72	.52	99	67			0					
6-27-30	5	5.532	1	8:40P	95	.34	1.44	.72	.52	99	67			0					
6-27-30	6	6.044	1	8:40P	95	.34	1.44	.72	.52	99	67			0					
7-31-30	1	11.530	1	No chart		.05		No chart		100	69			0					
7-31-30	2	9.386	1	No chart		.05		No chart		100	69			0					
7-31-30	3	10.711	1	No chart		.05		No chart		100	69			0					
7-31-30	5	5.532	1	No chart		.05		No chart		100	69			0					
7-31-30	6	6.044	1	No chart		.05		No chart		100	69			0					
8-5-30	1	11.530	1	No chart		.02		No chart		97	61			0					
8-5-30	2	9.386	1	No chart		.02		No chart		97	61			0					
8-5-30	3	10.711	1	No chart		.02		No chart		97	61			0					
8-5-30	5	5.532	1	No chart		.02		No chart		97	61			0					
8-5-30	6	6.044	1	No chart		.02		No chart		97	61			0					
8-6-30	1	11.530	1	No chart		.19		No chart		90	56			0					
8-6-30	2	9.386	1	No chart		.19		No chart		90	56			0					
8-6-30	3	10.711	1	No chart		.19		No chart		90	56			0					
8-6-30	5	5.532	1	No chart		.19		No chart		90	56			0					
8-6-30	6	6.044	1	No chart		.19		No chart		90	56			0					
8-7-30	1	11.530	1	5:40A	60	.18)	.72	.48	.32	87	56	No chart avail-							
8-8-30	1	11.530	1	1:55P	55	.94)	1.48 3.12	1.20	1.12	90	54	able		.27					Runoff from station annual report.
8-8-30	1	11.530	1	3:30A	160	.36)	.48	.24	.16	90	54								

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month August, September, 19 30

Project Spur, Texas.

Sheet 28 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu. ft. sec.	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-7-30	2	9.386	1	5:40A	60	.18)	.72	.48	.32	87	56								
8-8-30	2	9.386	1	1:55P	35	.94)1.48	3.12	1.20	1.12	90	54								
8-8-30	2	9.386	1	3:30A	160	.36)	.48	.24	.16	90	54			.25					
8-7-30	3	10.711	1	5:40A	60	.18)	.72	.48	.32	87	56								
8-8-30	3	10.711	1	1:55P	35	.94)1.48	3.12	1.20	1.12	90	54								
8-8-30	3	10.711	1	3:30A	160	.36)	.48	.24	.16	90	54			.05					
8-7-30	5	5.532	1	5:40A	60	.18)	.72	.48	.32	87	56								
8-8-30	5	5.532	1	1:55P	35	.94)1.48	3.12	1.20	1.12	90	54								
8-8-30	5	5.532	1	3:30A	160	.36)	.48	.24	.16	90	54	No chart available		.32					Runoff from station annual report.
8-7-30	6	6.044	1	5:40A	60	.18)	.72	.48	.32	87	56								
8-8-30	6	6.044	1	1:55P	35	.94)1.48	3.12	1.20	1.12	90	54								
8-8-30	6	6.044	1	3:30A	160	.36)	.48	.24	.16	90	54			.08					
8-17-30	1	11.530	1	7:30P	30	.15	.96	.56	.30	101	69			0					
8-17-30	2	9.386	1	7:30P	30	.15	.96	.56	.30	101	69			0					
8-17-30	3	10.711	1	7:30P	30	.15	.96	.56	.30	101	69			0					
8-17-30	5	5.532	1	7:30P	30	.15	.96	.56	.30	101	69			0					
8-17-30	6	6.044	1	7:30P	30	.15	.96	.56	.30	101	69			0					
8-23-30	1	11.530	1	No chart		.03	No chart			100	70			0					
8-23-30	2	9.386	1	No chart		.03	No chart			100	70			0					
8-23-30	3	10.711	1	No chart		.03	No chart			100	70			0					
8-23-30	5	5.532	1	No chart		.03	No chart			100	70			0					
8-23-30	6	6.044	1	No chart		.03	No chart			100	70			0					
8-24-30	1	11.530	1	1:20A	90	.11	.24	.16	.12	94	68			0					
8-24-30	2	9.386	1	1:20A	90	.11	.24	.16	.12	94	68			0					
8-24-30	3	10.711	1	1:20A	90	.11	.24	.16	.12	94	68			0					
8-24-30	5	5.532	1	1:20A	90	.11	.24	.16	.12	94	68			0					
8-24-30	6	6.044	1	1:20A	90	.11	.24	.16	.12	94	68			0					
8-25-30	1	11.530	1	No chart		.07	No chart			92	67			0					
8-25-30	2	9.386	1	No chart		.07	No chart			92	67			0					
8-25-30	3	10.711	1	No chart		.07	No chart			92	67			0					
8-25-30	5	5.532	1	No chart		.07	No chart			92	67			0					
8-25-30	6	6.044	1	No chart		.07	No chart			92	67			0					
9-10-30	1	11.530	1	5:30P	90	.34	.96	.64	.40	98	62			0					
9-10-30	2	9.386	1	5:30P	90	.34	.96	.64	.40	98	62			0					
9-10-30	3	10.711	1	5:30P	90	.34	.96	.64	.40	98	62			0					
9-10-30	5	5.532	1	5:30P	90	.34	.96	.64	.40	98	62			0					
9-10-30	6	6.044	1	5:30P	90	.34	.96	.64	.40	98	62			0					
9-28-30	1	11.530	1	2:30A	250	.55	1.08	.48	.32	72	52			0					
9-28-30	2	9.386	1	2:30A	250	.55	1.08	.48	.32	72	52			0					
9-28-30	3	10.711	1	2:30A	250	.55	1.08	.48	.32	72	52			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month Sept. Oct., 1930

Sheet 29 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Load (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-28-30	5	5.532	1	2:30A	250	.55	1.08	.48	.32	72	52			0					
9-28-30	6	6.044	1	2:30A	250	.55	1.08	.48	.32	72	52			0					
10-3-30	1	11.530	1	2:00P	50	.22)	.72	.40	.28	77	59								
10-4-30	1	11.530	1	7:40A	160	.56)	.60	.40	.32	67	60								
10-5-30	1	11.530	1	2:50P	280	.79)2.42	.96	.48	.56	66	59								
10-6-30	1	11.530	1	3:50A	110	.38)	.48	.24	.12	63	57								
10-6-30	1	11.530	1	11:50A	120	.47)	.84	.36	.28	63	57			0					
10-3-30	2	9.386	1	2:00P	50	.22)	.72	.40	.28	77	57								
10-4-30	2	9.386	1	7:40A	160	.56)	.60	.40	.32	67	60								
10-5-30	2	9.386	1	2:50P	280	.79)2.42	.96	.48	.56	66	59								
10-6-30	2	9.386	1	3:50A	110	.38)	.48	.24	.12	63	55								
10-6-30	2	9.386	1	11:50A	120	.47)	.84	.36	.28	63	57	No chart available		.09					Runoff from station annual report
10-3-30	3	10.711	1	2:00P	50	.22)	.72	.40	.28	77	59								
10-4-30	3	10.711	1	7:40A	160	.56)	.60	.40	.32	67	60								
10-5-30	3	10.711	1	2:50P	280	.79)2.42	.96	.48	.56	66	59								
10-6-30	3	10.711	1	3:50A	110	.38)	.48	.24	.12	63	57								
10-6-30	3	10.711	1	11:50A	120	.47)	.84	.36	.28	63	57			0					
10-3-30	5	5.532	1	2:00P	50	.22)	.72	.40	.28	77	59								This was for a period of rain that lasted for 4 days, so the run-off was determined from this period of rainfall instead of for each individual rain.
10-4-30	5	5.532	1	7:40A	160	.56)	.60	.40	.32	67	60								
10-5-30	5	5.532	1	2:50P	280	.79)2.42	.96	.84	.56	66	59								
10-6-30	5	5.532	1	3:50A	110	.38)	.48	.24	.12	63	57								
10-6-30	5	5.532	1	11:50A	120	.47)	.84	.36	.28	63	57			.12					
10-3-30	6	6.044	1	2:00P	50	.22)	.72	.40	.28	77	59								
10-4-30	6	6.044	1	7:40A	160	.56)	.60	.40	.32	67	60								
10-5-30	6	6.044	1	2:50P	280	.79)2.42	.96	.48	.56	66	59								
10-6-30	6	6.044	1	3:50A	110	.38)	.48	.24	.12	63	57								
10-6-30	6	6.044	1	11:50A	120	.47)	.84	.36	.28	63	57			0					
10-11-30	1	11.530	1	11:30A	80	.20)	.96	.48	.36	83	65								
10-11-30	1	11.530	1	3:25P	85	.17)	1.20	.56	.32	83	65								
10-11-30	1	11.530	1	11:10P	30	.08)	.84	.24	.16	83	65								
10-12-30	1	11.530	1	12:55A	215	.95)	1.68	1.28	.68	74	61			.06					
10-13-30	1	11.530	1	2:10A	50	.28)2.43	.72	.32	.24	76	63								
10-13-30	1	11.530	1	5:20A	90	.38)	.48	.24	.16	76	63			0					
10-14-30	1	11.530	1	8:30A	120	.18)	.24	.16	.10	76	61								
10-14-30	1	11.530	1	8:40P	180	.19)	.72	.40	.24	76	61			0					
10-11-30	2	9.386	1	11:30A	80	.20)	.96	.48	.36	83	65								
10-11-30	2	9.386	1	3:20P	85	.17)	1.20	.56	.32	83	65								
10-11-30	2	9.386	1	11:10P	30	.08)	.84	.24	.16	83	65								
10-12-30	2	9.386	1	12:55A	2.15	.95)2.43	1.68	1.28	.68	74	61			.25					
10-13-30	2	9.386	1	2:10A	50	.28)	.72	.32	.24	76	63								
10-13-30	2	9.386	1	5:20A	90	.38)	.48	.24	.16	76	63			.04					
10-14-30	2	9.386	1	8:30A	120	.18)	.24	.16	.10	76	61								
10-14-30	2	9.386	1	8:40P	180	.19)	.72	.40	.24	76	61			.04					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month October, 19 30

Sheet 50 of 99 sheets

Date	Watershed		Rainfall							Temperature (Degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-11-30	3	10.711	1	10:30A	80	.20)	.96	.48	.36	83	65								
10-11-30	3	10.711	1	3:25P	85	.17)	1.20	.56	.32	83	65								
10-11-30	3	10.711	1	11:10P	30	.08)	.84	.24	.16	83	65								
10-12-30	3	10.711	1	12:55A	215	.95)2.43	1.68	1.28	.68	74	61	No chart available		.07					Runoff from station annual report.
10-13-30	3	10.711	1	2:10A	50	.28)	.72	.32	.24	76	63								
10-13-30	3	10.711	1	5:20A	90	.38)	.48	.24	.16	76	63			0					
10-14-30	3	10.711	1	8:30A	120	.18)	.24	.16	.10	76	61								
10-14-30	3	10.711	1	8:40P	180	.19)	.72	.40	.24	76	61			0					
10-11-30	5	5.532	1	10:30A	80	.20)	.96	.48	.36	83	65								
10-11-30	5	5.532	1	3:25P	85	.17)	1.20	.56	.32	83	65								
10-11-30	5	5.532	1	11:10P	30	.08)	.84	.24	.16	83	65								
10-12-30	5	5.532	1	12:55A	215	.95)2.43	1.68	1.28	.68	74	61			.27					Runoff from station annual report.
10-13-30	5	5.532	1	2:10A	50	.28)	.72	.32	.24	76	63								
10-13-30	5	5.532	1	5:20A	90	.38)	.48	.24	.16	76	63			.08					Runoff from station annual report.
10-14-30	5	5.532	1	8:30A	120	.18)	.24	.16	.10	76	61								
10-14-30	5	5.532	1	8:40P	180	.19)	.72	.40	.24	76	61			.04					Runoff from station annual report.
10-11-30	6	6.044	1	10:30A	80	.20)	.96	.48	.36	83	65								
10-11-30	6	6.044	1	3:25P	85	.17)	1.20	.56	.32	83	65								
10-11-30	6	6.044	1	11:10P	30	.08)	.84	.24	.16	83	65								
10-12-30	6	6.044	1	12:55A	215	.95)2.43	1.68	1.28	.68	74	61			.07					Runoff from station annual report.
10-13-30	6	6.044	1	2:10A	50	.28)	.72	.32	.24	76	63								
10-13-30	6	6.044	1	5:20A	90	.38)	.48	.24	.16	76	63			0					
10-14-30	6	6.044	1	8:30A	120	.18)	.24	.16	.10	76	61								
10-14-30	6	6.044	1	8:40P	180	.19)	.72	.40	.24	76	61			0					
10-19-30	1	11.530	1	3:30A	110	.13	.60	.24	.16	65	46			0					
10-19-30	2	9.386	1	3:30A	110	.13	.60	.24	.16	65	46			0					
10-19-30	3	10.711	1	3:30A	110	.13	.60	.24	.16	65	46			0					
10-19-30	5	5.532	1	3:30A	110	.13	.60	.24	.16	65	46			0					
10-19-30	6	6.044	1	3:30A	110	.13	.60	.24	.16	65	46			0					
10-20-30	1	11.530	1	No chart		.01	No chart			59	51			0					
10-20-30	2	9.386	1	No chart		.01	No chart			59	51			0					
10-20-30	3	10.711	1	No chart		.01	No chart			59	51			0					
10-20-30	5	5.532	1	No chart		.01	No chart			59	51			0					
10-20-30	6	6.044	1	No chart		.01	No chart			59	51			0					
10-22-30	1	11.532	1	No chart		.07	No chart			65	47			0					
10-22-30	2	9.386	1	No chart		.07	No chart			65	47			0					
10-22-30	3	10.711	1	No chart		.07	No chart			65	47			0					
10-22-30	5	5.532	1	No chart		.07	No chart			65	47			0					
10-22-30	6	6.044	1	No chart		.07	No chart			65	47			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Oct., Nov., 19 30

Project Spur, Texas.

Sheet 31 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-23-30	1	11.530	1	4:20P	70		.12	VL	VL	62	46								
10-23-30	1	11.530	1	10:30P	250	1.31	1.20	.88	.60	62	46	No chart available		.35					Runoff from station annual report.
10-23-30	2	9.386	1	4:20P	70		.12	VL	VL	62	46								
10-23-30	2	9.386	1	10:30P	250	1.31	1.20	.88	.60	62	46			.44					
10-23-30	3	10.711	1	4:20P	70		.12	VL	VL	62	46								
10-23-30	3	10.711	1	10:30P	250	1.31	1.20	.88	.60	62	46			.26					
10-23-30	5	5.532	1	4:20P	70		.12	VL	VL	62	46								
10-23-30	5	5.532	1	10:30P	250	1.31	1.20	.88	.60	62	46			.51					
10-23-30	6	6.044	1	4:20P	70		.12	VL	VL	62	46								
10-23-30	6	6.044	1	10:30P	250	1.31	1.20	.88	.60	62	46			.18					
10-27-30	1	11.530	1	1:10A	40	.16	.12	VL	VL	80	49			0					
10-27-30	2	9.386	1	1:10A	40	.16	.12	VL	VL	80	49			0					
10-27-30	3	10.711	1	1:10A	40	.16	.12	VL	VL	80	49			0					
10-27-30	5	5.532	1	1:10A	40	.16	.12	VL	VL	80	49			0					
10-27-30	6	6.044	1	1:10A	40	.16	.12	VL	VL	80	49			0					
11-8-30	1	11.530	1	No chart		.02	No chart			65	35			0					
11-8-30	2	9.386	1	No chart		.02	No chart			65	35			0					
11-8-30	3	10.711	1	No chart		.02	No chart			65	35			0					
11-8-30	5	5.532	1	No chart		.02	No chart			65	35			0					
11-8-30	6	6.044	1	No chart		.02	No chart			65	35			0					
11-11-30	1	11.530	1	6:50P	430	.44	.24	.12	.12	61	48			0					This was just a slow rain that continued constantly for 430 mins
11-11-30	2	9.386	1	6:50P	430	.44	.24	.12	.12	61	48			0					
11-11-30	3	10.711	1	6:50P	430	.44	.24	.12	.12	61	48			0					
11-11-30	5	5.532	1	6:50P	430	.44	.24	.12	.12	61	48			0					
11-11-30	6	6.044	1	6:50P	430	.44	.24	.12	.12	61	48			0					
11-16-30	1	11.530	1	No chart		.03	No chart			70	43			0					
11-16-30	2	9.386	1	No chart		.03	No chart			70	43			0					
11-16-30	3	10.711	1	No chart		.03	No chart			70	43			0					
11-16-30	5	5.532	1	No chart		.03	No chart			70	43			0					
11-16-30	6	6.044	1	No chart		.03	No chart			70	43			0					
11-19-30	1	11.530	1	3:50A	20	.11	.72	.44		75	43			0					
11-19-30	2	9.386	1	3:50A	20	.11	.72	.44		75	43			0					
11-19-30	3	10.711	1	3:50A	20	.11	.72	.44		75	43			0					
11-19-30	5	5.532	1	3:50A	20	.11	.72	.44		75	43			0					
11-19-30	6	6.044	1	3:50A	20	.11	.72	.44		75	43			0					
11-29-30	1	11.530	1	1:10A	130	.15	.12	VL	VL	65	40			0					
11-29-30	2	9.386	1	1:10A	130	.15	.12	VL	VL	65	40			0					
11-29-30	3	10.711	1	1:10A	130	.15	.12	VL	VL	65	40			0					
11-29-30	5	5.532	1	1:10A	130	.15	.12	VL	VL	65	40			0					
11-29-30	6	6.044	1	1:10A	130	.15	.12	VL	VL	65	40			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month Dec., Jan., 1930-31

Sheet 32 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off			Maximum Rate		Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
12-4-30	1	11.530	1	2:00A	480	2.45	1.80	.88	.56	59	43	No chart available.		.06					Runoff from station annual report
12-4-30	2	9.386	1	2:00A	480	2.45	1.80	.88	.56	59	43			.27					
12-4-30	3	10.711	1	2:00A	480	2.45	1.80	.88	.56	59	43			.61					
12-4-30	5	5.532	1	2:00A	480	2.45	1.80	.88	.56	59	43			.68					
12-4-30	6	6.044	1	2:00A	480	2.45	1.80	.88	.56	59	43			.56					
12-10-30	1	11.530	1	No chart		.04	No chart			59	37			0					
12-10-30	2	9.386	1	No chart		.04	No chart			59	37			0					
12-10-30	3	10.711	1	No chart		.04	No chart			59	37			0					
12-10-30	5	5.532	1	No chart		.04	No chart			59	37			0					
12-10-30	6	6.044	1	No chart		.04	No chart			59	37			0					
12-21-30	1	11.530	1	No chart		.07	No chart			59	21			0					
12-21-30	2	9.386	1	No chart		.07	No chart			59	21			0					
12-21-30	3	10.711	1	No chart		.07	No chart			59	21			0					
12-21-30	5	5.532	1	No chart		.07	No chart			59	21			0					
12-21-30	6	6.044	1	No chart		.07	No chart			59	21			0					
1931																			
1-4-31	1	11.530	1	7:30A	120	.07	.12	VL	VL	65	32			0					
1-4-31	2	9.386	1	7:30A	120	.07	.12	VL	VL	65	32			0					
1-4-31	3	10.711	1	7:30A	120	.07	.12	VL	VL	65	32			0					
1-4-31	5	5.532	1	7:30A	120	.07	.12	VL	VL	65	32			0					
1-4-31	6	6.044	1	7:30A	120	.07	.12	VL	VL	65	32			0					
1-9-31	1	11.530	1	No chart		.03	No chart			56	26			0					
1-9-31	2	9.386	1	No chart		.03	No chart			56	26			0					
1-9-31	3	10.711	1	No chart		.03	No chart			56	26			0					
1-9-31	5	5.532	1	No chart		.03	No chart			56	26			0					
1-9-31	6	6.044	1	No chart		.03	No chart			56	26			0					
1-10-31	1	11.530	1	No chart		.20	No chart			49	36			0					
1-10-31	2	9.386	1	No chart		.20	No chart			49	36			0					
1-10-31	3	10.711	1	No chart		.20	No chart			49	36			0					
1-10-31	5	5.532	1	No chart		.20	No chart			49	36			0					
1-10-31	6	6.044	1	No chart		.20	No chart			49	36			0					
1-11-31	1	11.530	1	1:30P	60	.09	.12	VL	VL	49	41			0					
1-11-31	2	9.386	1	1:30P	60	.09	.12	VL	VL	49	41			0					
1-11-31	3	10.711	1	1:30P	60	.09	.12	VL	VL	49	41			0					
1-11-31	5	5.532	1	1:30P	60	.09	.12	VL	VL	49	41			0					
1-11-31	6	6.044	1	1:30P	60	.09	.12	VL	VL	49	41			0					
1-17-31	1	11.530	1	No chart		.05	No chart			59	40			0					
1-17-31	2	9.386	1	No chart		.05	No chart			59	40			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month Jan., Feb., 1931

Sheet 33 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Beган (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu ft sec	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1-17-31	3	10.711	1	No chart		.05	No chart.			59	40			0					
1-17-31	5	5.532	1	No chart		.05	No chart			59	40			0					
1-17-31	6	6.044	1	No chart		.05	No chart			59	40			0					
1-27-31	1	11.530	1	9:00A	190	.32	.48	.16	.12	54	31			0					
1-27-31	2	9.386	1	9:00A	190	.32	.48	.16	.12	54	31			0					
1-27-31	3	10.711	1	9:00A	190	.32	.48	.16	.12	54	31			0					
1-27-31	5	5.532	1	9:00A	190	.32	.48	.16	.12	54	31			0					
1-27-31	6	6.044	1	9:00A	190	.32	.48	.16	.12	54	31			0					
1-28-31	1	11.530	1	4:40A	40	.03	.12	VL	VL	55	44			0					
1-28-31	2	9.386	1	4:40A	40	.03	.12	VL	VL	55	44			0					
1-28-31	3	10.711	1	4:40A	40	.03	.12	VL	VL	55	44			0					
1-28-31	5	5.532	1	4:40A	40	.03	.12	VL	VL	55	44			0					
1-28-31	6	6.044	1	4:40A	40	.03	.12	VL	VL	55	44			0					
2-2-31	1	11.530	1	10:20P	20	.05	.12	VL		58	39			0					
2-2-31	2	9.386	1	10:20P	20	.05	.12	VL		58	39			0					
2-2-31	3	10.711	1	10:20P	20	.05	.12	VL		58	39			0					
2-2-31	5	5.532	1	10:20P	20	.05	.12	VL		58	39			0					
2-2-31	6	6.044	1	10:20P	20	.05	.12	VL		58	39			0					
2-7-31	1	11.530	1	5:50P	90		.72	.64	.36	66	46			0					
2-7-31	1	11.530	1	10:50P	70		.48	.20	.16	66	46			0					
2-8-31	1	11.530	1	12:00M	200	.75	.24	.14	.08	60	35			0					
2-7-31	2	9.386	1	5:50P	90		.72	.60	.36	66	46			0					
2-7-31	2	9.386	1	10:50P	70		.48	.20	.16	66	46			0					
2-8-31	2	9.386	1	12:00M	200	.75	.24	.14	.08	60	35			0					
2-7-31	3	10.711	1	5:50P	90		.72	.64	.36	66	46			0					
2-7-31	3	10.711	1	10:50P	70		.48	.20	.16	66	46			0					
2-8-31	3	10.711	1	12:00M	200	.75	.24	.14	.08	60	35			0					
2-7-31	5	5.532	1	5:50P	90		.72	.64	.36	66	46			0					
2-7-31	5	5.532	1	10:50P	70		.48	.20	.16	66	46			0					
2-8-31	5	5.532	1	12:00M	200	.75	.24	.14	.08	60	35			0					
2-7-31	6	6.044	1	5:50P	90		.72	.64	.36	66	46			0					
2-7-31	6	6.044	1	10:50P	70		.48	.20	.16	66	46			0					
2-8-31	6	6.044	1	12:00M	200	.75	.24	.14	.08	60	35			0					
2-13-31	1	11.530	1	3:10A	50	.07	.12	VL	VL	55	39			0					
2-13-31	2	9.386	1	3:10A	50	.07	.12	VL	VL	55	39			0					
2-13-31	3	10.711	1	3:10A	50	.07	.12	VL	VL	55	39			0					
2-13-31	5	5.532	1	3:10A	50	.07	.12	VL	VL	55	39			0					
2-13-31	6	6.044	1	3:10A	50	.07	.12	VL	VL	55	39			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month Feb., Mar., 1931

Sheet 34 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate				
															Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
2-16-31	1	11.530	1	No chart		.09	No chart			72	39			0					
2-16-31	2	9.386	1	No chart		.09	No chart			72	39			0					
2-16-31	3	10.711	1	No chart		.09	No chart			72	39			0					
2-16-31	5	5.532	1	No chart		.09	No chart			72	39			0					
2-16-31	6	6.044	1	No chart		.09	No chart			72	39			0					
2-17-31	1	11.530	1	No chart		.02	No chart			68	39			0					
2-17-31	2	9.386	1	No chart		.02	No chart			68	39			0					
2-17-31	3	10.711	1	No chart		.02	No chart			68	39			0					
2-17-31	5	5.532	1	No chart		.02	No chart			68	39			0					
2-17-31	6	6.044	1	No chart		.02	No chart			68	39			0					
2-21-31	1	11.530	1	12:30A	40	.21	1.32	.64	.44	69	30			0					
2-21-31	2	9.386	1	12:30A	40	.21	1.32	.64	.44	69	30			0					
2-21-31	3	10.711	1	12:30A	40	.21	1.32	.64	.44	69	30			0					
2-21-31	5	5.532	1	12:30A	40	.21	1.32	.64	.44	69	30			0					
2-21-31	6	6.044	1	12:30A	40	.21	1.32	.64	.44	69	30			0					
2-23-31	1	11.530	1	2:10P	160	.41	.48	.24	.14	61	37			0					
2-23-31	2	9.386	1	2:10P	160	.41	.48	.24	.14	61	37			0					
2-23-31	3	10.711	1	2:10P	160	.41	.48	.24	.14	61	37			0					
2-23-31	5	5.532	1	2:10P	160	.41	.48	.24	.14	61	37			0					
2-23-31	6	6.044	1	2:10P	160	.41	.48	.24	.14	61	37			0					
2-24-31	1	11.530	1	No chart		.02	No chart			52	37			0					
2-24-31	2	9.386	1	No chart		.02	No chart			52	37			0					
2-24-31	3	10.711	1	No chart		.02	No chart			52	37			0					
2-24-31	5	5.532	1	No chart		.02	No chart			52	37			0					
2-24-31	6	6.044	1	No chart		.02	No chart			52	37			0					
3-1-31	1	11.530	1	No chart		.05	No chart			55	28			0					
3-1-31	2	9.386	1	No chart		.05	No chart			55	28			0					
3-1-31	3	10.711	1	No chart		.05	No chart			55	28			0					
3-1-31	5	5.532	1	No chart		.05	No chart			55	28			0					
3-1-31	6	6.044	1	No chart		.05	No chart			55	28			0					
3-16-31	1	11.530	1	No chart		.04	No chart			63	42			0					
3-16-31	2	9.386	1	No chart		.04	No chart			63	42			0					
3-16-31	3	10.711	1	No chart		.04	No chart			63	42			0					
3-15-31	5	5.532	1	No chart		.04	No chart			63	42			0					
3-15-31	6	6.044	1	No chart		.04	No chart			63	42			0					
3-26-31	1	11.530	1	5:25A	35	.18	.60	.28	.20	69	35			0					
3-26-31	2	9.386	1	5:25A	35	.18	.60	.28	.20	69	35			0					
3-26-31	3	10.711	1	5:25A	35	.18	.60	.28	.20	69	35			0					
3-26-31	5	5.532	1	5:25A	35	.18	.60	.28	.20	69	35			0					
3-26-31	6	6.044	1	5:25A	35	.18	.60	.28	.20	69	35			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH March, April, 19 31

SHEET 36 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOAD (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu ft sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-27-31	1	11.530	1	8:30A	30	.06	.12			44	15			0					
3-27-31	2	9.386	1	8:30A	30	.06	.12			44	15			0					
3-27-31	3	10.711	1	8:30A	30	.06	.12			44	15			0					
3-27-31	5	5.532	1	8:30A	30	.06	.12			44	15			0					
3-27-31	6	6.044	1	8:30A	30	.06	.12			44	15			0					
4-9-31	1	11.530	1	11:55A	35	.16	.24	VL	VL	66	46			0					
4-9-31	2	9.386	1	11:55A	35	.16	.24	VL	VL	66	46			0					
4-9-31	3	10.711	1	11:55A	35	.16	.24	VL	VL	66	46			0					
4-9-31	5	5.532	1	11:55A	35	.16	.24	VL	VL	66	46			0					
4-9-31	6	6.044	1	11:55A	35	.16	.24	VL	VL	66	46			0					
4-16-31	1	11.530	1	5:30P	180	.38	1.20	.48	.32	76	46			0					
4-16-31	2	9.386	1	5:30P	180	.38	1.20	.48	.32	76	46			0					
4-16-31	3	10.711	1	5:30p	180	.38	1.20	.48	.32	76	46			0					
4-16-31	5	5.532	1	5:30P	180	.38	1.20	.48	.32	76	46			0					
4-16-31	6	6.044	1	5:30P	180	.38	1.20	.48	.32	76	46			0					
4-17-31	1	11.530	1	6:20P	170	.43	2.16	.88	.52	70	54			0					
4-17-31	2	9.386	1	6:20P	170	.43	2.16	.88	.52	70	54	No charts		.02	available				Runoff from station annual report.
4-17-31	3	10.711	1	6:20P	170	.43	2.16	.88	.52	70	54			0					
4-17-31	5	5.532	1	6:20P	170	.43	2.16	.88	.52	70	54			0					
4-17-31	6	6.044	1	6:20P	170	.43	2.16	.88	.52	70	54			0					
4-18-31	1	11.530	1	10:00P	90	.33	.36	.16	.12	68	55			0					
4-18-31	2	9.386	1	10:00P	90	.33	.36	.16	.12	68	55			0					
4-18-31	3	10.711	1	10:00P	90	.33	.36	.16	.12	68	55			0					
4-18-31	5	5.532	1	10:00P	90	.33	.36	.16	.12	68	55			0					
4-18-31	6	6.044	1	10:00P	90	.33	.36	.16	.12	68	55			0					
4-23-31	1	11.530	1	2:00P	120	.30	.48	.24	.16	61	37			0					
4-23-31	2	9.386	1	2:00P	120	.30	.48	.24	.16	61	37			0					
4-23-31	3	10.711	1	2:00P	120	.30	.48	.24	.16	61	37			0					
4-23-31	5	5.532	1	2:00P	120	.30	.48	.24	.16	61	37			0					
4-23-31	6	6.044	1	2:00P	120	.30	.48	.24	.16	61	37			0					
4-24-31	1	11.530	1	No chart		.02	No chart			70	44			0					
4-24-31	2	9.386	1	No chart		.02	No chart			70	44			0					
4-24-31	3	10.711	1	No chart		.02	No chart			70	44			0					
4-24-31	5	5.532	1	No chart		.02	No chart			70	44			0					
4-24-31	6	6.044	1	No chart		.02	No chart			70	44			0					
4-28-31	1	11.530	1	9:30A	280	.11	.12	VL	VL	65	45			0					
4-28-31	2	9.386	1	9:30A	280	.11	.12	VL	VL	65	45			0					
4-28-31	3	10.711	1	9:30A	280	.11	.12	VL	VL	65	45			0					
4-28-31	5	5.532	1	9:30A	280	.11	.12	VL	VL	65	45			0					
4-28-31	6	6.044	1	9:30A	280	.11	.12	VL	VL	65	45			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month April, May, 1931

Sheet 36 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
4-29-31	1	11.530	1	2:50A	140	.26	.48	.32	.16	72	52			0					
4-29-31	1	11.530	1	10:30A	180	.04	VL	VL	VL	72	52			0					
4-29-31	2	9.386	1	2:50A	140	.26	.48	.32	.16	72	52			0					
4-29-31	2	9.386	1	10:30A	180	.04	VL	VL	VL	72	52			0					
4-29-31	3	10.711	1	2:50A	140	.26	.48	.32	.16	72	52			0					
4-29-31	3	10.711	1	10:30A	180	.04	VL	VL	VL	72	52			0					
4-29-31	5	5.532	1	2:50A	140	.26	.48	.32	.16	72	52			0					
4-29-31	5	5.532	1	10:30A	180	.04	VL	VL	VL	72	52			0					
4-29-31	6	6.044	1	2:50A	140	.26	.48	.32	.16	72	52			0					
4-29-31	6	6.044	1	10:30A	180	.04	VL	VL	VL	72	52			0					
4-30-31	1	11.530	1	12:10A	140	.15	.48	.24	.16	70	52			0					
4-30-31	2	9.386	1	12:10A	140	.15	.48	.24	.16	70	52			0					
4-30-31	3	10.711	1	12:10A	140	.15	.48	.24	.16	70	52			0					
4-30-31	5	5.532	1	12:10A	140	.15	.48	.24	.16	70	52			0					
4-30-31	6	6.044	1	12:10A	140	.15	.48	.24	.16	70	52			0					
5-4-31	1	11.530	1	8:00A	60	.04	VL	VL	VL	84	50			0					
5-4-31	2	9.386	1	8:00A	60	.04	VL	VL	VL	84	50			0					
5-4-31	3	10.711	1	8:00A	60	.04	VL	VL	VL	84	50			0					
5-4-31	5	5.532	1	8:00A	60	.04	VL	VL	VL	84	50			0					
5-4-31	6	6.044	1	8:00A	60	.04	VL	VL	VL	84	50			0					
5-18-31	1	11.530	1	4:30P	10	.05	.10			94	56			0					
5-18-31	2	9.386	1	4:30P	10	.05	.10			94	56			0					
5-18-31	3	10.711	1	4:30P	10	.05	.10			94	56			0					
5-18-31	5	5.532	1	4:30P	10	.05	.10			94	56			0					
5-18-31	6	6.044	1	4:30P	10	.05	.10			94	56			0					
5-19-31	1	11.530	1	No chart		.02	No chart			74	55			0					
5-19-31	2	9.386	1	No chart		.02	No chart			74	55			0					
5-19-31	3	10.711	1	No chart		.02	No chart			74	55			0					
5-19-31	5	5.532	1	No chart		.02	No chart			74	55			0					
5-19-31	6	6.044	1	No chart		.02	No chart			74	55			0					
5-25-31	1	11.530	1	4:45P	30	.74	4.32	2.68	1.48	104	66	5:00P	8:40P	.04	0.3	5:20P	.70		
5-25-31	2	9.386	1	4:45P	30	.74	4.32	2.68	1.48	104	66	4:55P	7:50P	.17	1.8	5:10P	.57		
5-25-31	3	10.711	1	4:45P	30	.74	4.32	2.68	1.48	104	66	4:55P	7:00P	.06	.57	5:15P	.68		
5-25-31	5	5.532	1	4:45P	30	.74	4.32	2.68	1.48	104	66	5:00P	6:10P	.15	2.2	5:10P	.59		
5-25-31	6	6.044	1	4:45P	30	.74	4.32	2.68	1.48	104	66	Runoff	charts	.04	not available		.70		Runoff from station annual report
5-28-31	1	11.530	1	3:20P	50	.10	.24	.16	.12	81	67			0					
5-28-31	2	9.386	1	3:20P	50	.10	.24	.16	.12	81	67			0					
5-28-31	3	10.711	1	3:20P	50	.10	.24	.16	.12	81	67			0					
5-28-31	5	5.532	1	3:20P	50	.10	.24	.16	.12	81	67			0					
5-28-31	6	6.044	1	3:20P	50	.10	.24	.16	.12	81	67			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH May, June, July, 1931

SHEET 37 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-29-31	1	11.530	1	6:20A	50		.24	.20	.12	75	52			0					
5-29-31	1	11.530	1	1:40P	40	.27	.24	.24	.16	75	52			0					
5-29-31	2	9.386	1	6:20A	50		.24	.20	.12	75	52			0					
5-29-31	2	9.386	1	1:40P	40	.27	.24	.24	.16	75	52			0					
5-29-31	3	10.711	1	6:20A	50		.24	.20	.12	75	52			0					
5-29-31	3	10.711	1	1:40P	40	.27	.24	.24	.16	75	52			0					
5-29-31	5	5.532	1	6:20A	50		.24	.20	.12	75	52			0					
5-29-31	5	5.532	1	1:40P	40	.27	.24	.24	.16	75	52			0					
5-29-31	6	6.044	1	6:20A	50		.24	.20	.12	75	52			0					
5-29-31	6	6.044	1	1:40P	40	.27	.24	.24	.16	75	52			0					
6-9-31	1	11.530	1	12:05A	20	.14	.72	.48		93	60			0					
6-9-31	2	9.386	1	12:05A	20	.14	.72	.48		93	60			0					
6-9-31	3	10.711	1	12:05A	20	.14	.72	.48		93	60			0					
6-9-31	5	5.532	1	12:05A	20	.14	.72	.48		93	60			0					
6-9-31	6	6.044	1	12:05A	20	.14	.72	.48		92	60			0					
6-11-31	1	11.530	1	No chart		.03	No chart			99	61			0					
6-11-31	2	9.386	1	No chart		.03	No chart			99	61			0					
6-11-31	3	10.711	1	No chart		.03	No chart			99	61			0					
6-11-31	5	5.532	1	No chart		.03	No chart			99	61			0					
6-11-31	6	6.044	1	No chart		.03	No chart			99	61			0					
6-12-31	1	11.530	1	5:00P	10	.04	.12			102	60			0					
6-12-31	2	9.386	1	5:00P	10	.04	.12			102	60			0					
6-12-31	3	10.711	1	5:00P	10	.04	.12			102	60			0					
6-12-31	5	5.532	1	5:00P	10	.04	.12			102	60			0					
6-12-31	6	6.044	1	5:00P	10	.04	.12			102	60			0					
6-29-31	1	11.530	1	4:10P	30	.77	4.08	2.56	1.54	95	69	Runoff	chart	.02	Not available		.75		Runoff from station annual report.
6-29-31	2	9.386	1	4:10P	30	.77	4.08	2.56	1.54	95	69	4:20P	6:05P	.05	.72	4:40P	.72		
6-29-31	3	10.711	1	4:10P	30	.77	4.08	2.56	1.54	95	69	4:30P	6:05P	.02	.30	4:40P	.75		
6-29-31	5	5.532	1	4:10P	30	.77	4.08	2.56	1.54	95	69	4:30P	6:25P	.07	1.20	4:55P	.70		
6-29-31	6	6.044	1	4:10P	30	.77	4.08	2.56	1.54	95	69	4:35P	6:30P	.01	.06	5:00P	.76		
6-30-31	1	11.530	1	6:10P	20	.31	1.20	.78		90	63			0					
6-30-31	2	9.386	1	6:10P	20	.31	1.20	.78		90	63			0					
6-30-31	3	10.711	1	6:10P	20	.31	1.20	.78		90	63			0					
6-30-31	5	5.532	1	6:10P	20	.31	1.20	.78		90	63			0					
6-30-31	6	6.044	1	6:10P	20	.31	1.20	.78		90	63			0					
7-5-31	1	11.530	1	4:50A	20	.06	.12	VL		98	61			0					
7-5-31	2	9.386	1	4:50A	20	.06	.12	VL		98	61			0					
7-5-31	3	10.711	1	4:50A	20	.06	.12	VL		98	61			0					
7-5-31	5	5.532	1	4:50A	20	.06	.12	VL		98	61			0					
7-5-31	6	6.044	1	4:50A	20	.06	.12	VL		98	61			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH July, August , 1931

SHEET 38 OF 99 SHEETS

U. S. GOVERNMENT PRINTING OFFICE 8-12368

DATE	WATERSHED		RAINFALL							TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft per sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-8-31	1	11.530	1	9:40P	140					97	65			0					
7-9-31	1	11.530	1	12:00M	90	.53	1.20	.56	.36	97	65			0					
7-8-31	2	9.386	1	9:40P	140					97	65			0					
7-9-31	2	9.386	1	12:00M	90	.53	1.20	.56	.36	97	65			0					
7-8-31	3	10.711	1	9:40P	140					97	65			0					
7-9-31	3	10.711	1	12:00M	90	.53	1.20	.56	.36	97	65			0					
7-8-31	5	5.532	1	9:40P	140					97	65			0					
7-9-31	5	5.532	1	12:00M	90	.53	1.20	.56	.36	97	65			0					
7-8-31	6	6.044	1	9:40P	140					97	65			0					
7-9-31	6	6.044	1	12:00M	90	.53	1.20	.56	.36	97	65			0					
7-19-31	1	11.530	1	3:40A	50	.65 1.21	3.12	1.44	.96	89	69			0					
7-20-31	1	11.530	1	8:10A	110	.56	1.68	1.04	.64	88	66								annual
7-19-31	2	9.386	1	3:40A	50	.65 1.21	3.12	1.44	.96	89	69	No chart		.03	available		1.18		Runoff from station report.
7-20-31	2	9.386	1	8:10A	110	.56	1.68	1.04	.64	88	66								
7-19-31	3	10.711	1	3:40A	50	.65 1.21	3.12	1.44	.96	89	69			0					
7-20-31	3	10.711	1	8:10A	110	.56	1.68	1.04	.64	88	66								
7-19-31	5	5.532	1	3:40A	50	.65 1.21	3.12	1.44	.96	89	69			0					
7-20-31	5	5.532	1	8:10A	110	.56	1.68	1.04	.64	88	66								
7-19-31	6	6.044	1	3:40A	50	.65 1.21	3.12	1.44	.96	89	69			0					
7-20-31	6	6.044	1	8:10A	110	.56	1.68	1.04	.64	88	66								
8-3-31	1	11.530	1	8:40P	40	.13	.96	.40	.24	95	70			0					
8-3-31	2	9.386	1	8:40P	40	.13	.96	.40	.24	95	70			0					
8-3-31	3	10.711	1	8:40P	40	.13	.96	.40	.24	95	70			0					
8-3-31	5	5.532	1	8:40P	40	.13	.96	.40	.24	95	70			0					
8-3-31	6	6.044	1	8:40P	40	.13	.96	.40	.24	95	70			0					
8-9-31	1	11.530	1	10:30P	70	.14	.48	.24	.16	101	72			0					
8-10-31	1	11.530	1	1:40A	280	.22 .61	.48	.16	.12	93	66			0					
8-10-31	1	11.530	1	8:20A	180	.25	.60	.32	.20	93	66			0					
8-9-31	2	9.386	1	10:30P	70	.14	.48	.24	.16	101	72			0					
8-10-31	2	9.386	1	1:40A	280	.22 .61	.48	.16	.12	93	66			0					
8-10-31	2	9.386	1	8:20A	180	.25	.60	.32	.20	93	66			0					
8-9-31	3	10.711	1	10:30P	70	.14	.48	.24	.16	101	72			0					
8-10-31	3	10.711	1	1:40A	280	.22 .61	.48	.16	.12	93	66			0					
8-10-31	3	10.711	1	8:20A	180	.25	.60	.32	.20	93	66			0					
8-9-31	5	5.532	1	10:30P	70	.14	.48	.24	.16	101	72			0					
8-10-31	5	5.532	1	1:40A	280	.22 .61	.48	.16	.12	93	66			0					
8-10-31	5	5.532	1	8:20A	180	.25	.60	.32	.20	93	66			0					
8-9-31	6	6.044	1	10:30P	70	.14	.48	.24	.16	101	72			0					
8-10-31	6	6.044	1	1:40A	280	.22 .61	.48	.16	.12	93	66			0					
8-10-31	6	6.044	1	8:20A	180	.25	.60	.32	.20	93	66			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month August, October, 1931

Sheet 39 of 99 sheets

Date	Watershed		Rainfall							Temperatures (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-19-31	1	11.530	1	1:40A	20	.05	VL	VL		94	62			0					
8-19-31	2	9.386	1	1:40A	20	.05	VL	VL		94	62			0					
8-19-31	3	10.711	1	1:40A	20	.05	VL	VL		94	62			0					
8-19-31	5	5.532	1	1:40A	20	.05	VL	VL		94	62			0					
8-19-31	6	6.044	1	1:40A	20	.05	VL	VL		94	62			0					
8-31-31	1	11.530	1	2:30P	190	.35	.96	.56	.36	97	73			0					
8-31-31	2	9.386	1	2:30P	190	.35	.96	.56	.36	97	73			0					
8-31-31	3	10.711	1	2:30P	190	.35	.96	.56	.36	97	73			0					
8-31-31	5	5.532	1	2:30P	190	.35	.96	.56	.36	97	73			0					
8-31-31	6	6.044	1	2:30P	190	.35	.96	.56	.36	97	73			0					
10-11-31	1	11.530	1	10:40A	70	.48	1.68	.88	.48	91	62			0					
10-11-31	1	11.530	1	12:00N	90	.28	1.20	.56	.36	91	62			0					
10-11-31	2	9.386	1	10:40A	70	.48	1.68	.88	.48	91	62			0					
10-11-31	2	9.386	1	12:00N	90	.28	1.20	.56	.36	91	62			0					
10-11-31	3	10.711	1	10:40A	70	.48	1.68	.88	.48	91	62			0					
10-11-31	3	10.711	1	12:00N	90	.28	1.20	.56	.36	91	62			0					
10-11-31	5	5.532	1	10:40A	70	.48	1.68	.88	.48	91	62			0					
10-11-31	5	5.532	1	12:00N	90	.28	1.20	.56	.36	91	62			0					
10-11-31	6	6.044	1	10:40A	70	.48	1.68	.88	.48	91	62			0					
10-11-31	6	6.044	1	12:00N	90	.28	1.20	.56	.36	91	62			0					
10-12-31	1	11.530	1	No chart		.77	No chart			65	53			0					
10-12-31	2	9.386	1	No chart		.77	No chart			65	53			0					
10-12-31	3	10.711	1	No chart		.77	No chart			65	53			0					
10-12-31	5	5.532	1	No chart		.77	No chart			65	53			0					
10-12-31	6	6.044	1	No chart		.77	No chart			65	53			0					
10-20-31	1	11.530	1	2:00P	210	.45	1.68	.96	.56	72	43			0					
10-20-31	2	9.386	1	2:00P	210	.45	1.68	.96	.56	72	43			0					
10-20-31	3	10.711	1	2:00P	210	.45	1.68	.96	.56	72	43			0					
10-20-31	5	5.532	1	2:00P	210	.45	1.68	.96	.56	72	43			0					
10-20-31	6	6.044	1	2:00P	210	.45	1.68	.96	.56	72	43			0					
10-21-31	1	11.530	1	2:50A	90	.22	.72	.32	.20	76	58			0					
10-21-31	2	9.386	1	2:50A	90	.22	.72	.32	.20	76	58			0					
10-21-31	3	10.711	1	2:50A	90	.22	.72	.32	.20	76	58			0					
10-21-31	5	5.532	1	2:50A	90	.22	.72	.32	.20	76	58			0					
10-21-31	6	6.044	1	2:50A	90	.22	.72	.32	.20	76	58			0					
10-22-31	1	11.530	1	10:30A	150	.33	.48	.24	.16	71	55			0					
10-22-31	2	9.386	1	10:30A	150	.33	.48	.24	.16	71	55			0					
10-22-31	3	10.711	1	10:30A	150	.33	.48	.24	.16	71	55			0					
10-22-31	5	5.532	1	10:30A	150	.33	.48	.24	.16	71	55			0					
10-22-31	6	6.044	1	10:30A	150	.33	.48	.24	.16	71	55			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH November, 1931

SHEET 40 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
11-13-31	1	11.530	1	12:20P	80	.09	VL	VL	VL	69	53			0					
11-13-31	1	11.530	1	11:10P	40	.68	5.28	2.72	1.44	69	53			0					
11-14-31	1	11.530	1	12:00M	70	.11	.24	.16	.12	68	42			0					
11-13-31	2	9.386	1	12:10P	80	.09	VL	VL	VL	69	53			0					
11-13-31	2	9.386	1	11:10P	40	.68	5.28	2.72	1.44	69	53			0					
11-14-31	2	9.386	1	12:00M	80	.11	.24	.16	.12	68	42			0					
11-13-31	3	10.711	1	12:20P	80	.09	VL	VL	VL	69	53			0					
11-13-31	3	10.711	1	11:10P	40	.68	5.28	2.72	1.44	69	53			0					
11-14-31	3	10.711	1	12:00M	70	.11	.24	.16	.12	68	42			0					
11-13-31	5	5.532	1	12:20P	80	.09	VL	VL	VL	69	53			0					
11-13-31	5	5.532	1	11:10P	40	.68	5.28	2.72	1.44	69	53			0					
11-14-31	5	5.532	1	12:00M	70	.11	.24	.16	.12	68	42			0					
11-13-31	6	6.044	1	12:20P	80	.09	VL	VL	VL	69	53			0					
11-13-31	6	6.044	1	11:10P	40	.68	5.28	2.72	1.44	69	53			0					
11-14-31	6	6.044	1	12:00M	70	.11	.24	.16	.12	68	42			0					
11-16-31	1	11.530	1	12:10P	70	.09	VL	VL	VL	66	42			0					
11-17-31	1	11.530	1	6:45P	215	.60	1.68	.72	.64	66	49			0					
11-16-31	2	9.386	1	12:10P	70	.09	VL	VL	VL	66	42			0					
11-17-31	2	9.386	1	6:45P	215	.60	1.68	.72	.64	66	49			0					
11-16-31	3	10.711	1	12:10P	70	.09	VL	VL	VL	66	42			0					
11-17-31	3	10.711	1	6:45P	215	.60	1.68	.72	.64	66	49			0					
11-16-31	5	5.532	1	12:10P	70	.09 .69	VL	VL	VL	66	42	No runoff charts available							Runoff from station annual report.
11-17-31	5	5.532	1	6:45P	215	.60	1.68	.72	.64	66	49			.05			.64		
11-16-31	6	6.044	1	12:10P	70	.09	VL	VL	VL	66	42			0					
11-17-31	6	6.044	1	6:45P	215	.60	1.68	.72	.64	66	49			0					
11-22-31	1	11.530	1	No chart		.01	No chart			62	33			0					
11-22-31	2	9.386	1	No chart		.01	No chart			62	33			0					
11-22-31	3	10.711	1	No chart		.01	No chart			62	33			0					
11-22-31	5	5.532	1	No chart		.01	No chart			62	33			0					
11-22-31	6	6.044	1	No chart		.01	No chart			62	33			0					
11-23-31	1	11.530	1	No chart		.01	No chart			61	31			0					
11-23-31	2	9.386	1	No chart		.01	No chart			61	31			0					
11-23-31	3	10.711	1	No chart		.01	No chart			61	31			0					
11-23-31	5	5.532	1	No chart		.01	No chart			61	31			0					
11-23-31	6	6.044	1	No chart		.01	No chart			61	31			0					
11-25-31	1	11.530	1	2:30P	90	.13	.12	VL	VL	43	33			0					
11-25-31	2	9.386	1	2:30P	90	.13	.12	VL	VL	43	33			0					
11-25-31	3	10.711	1	2:30P	90	.13	.12	VL	VL	43	33			0					
11-25-31	5	5.532	1	2:30P	90	.13	.12	VL	VL	43	33			0					
11-25-31	6	6.044	1	2:30P	90	.13	.12	VL	VL	43	33			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Nov., Dec., , 19 31

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
11-26-31	1	11.530	1	12:10A	210	.51	.48	.24	.12	47	34			0					
11-26-31	2	9.386	1	12:10A	210	.51	.48	.24	.12	47	34			0					
11-26-31	3	10.711	1	12:10A	210	.51	.48	.24	.12	47	34			0					
11-26-31	5	5.532	1	12:10A	210	.51	.48	.24	.12	47	34			0					
11-26-31	6	6.044	1	12:10A	210	.51	.48	.24	.12	47	34			0					
11-28-31	1	11.530	1	8:20P	50	.02	VL	VL	VL	46	31			0					
11-28-31	2	9.386	1	8:20P	50	.02	VL	VL	VL	46	31			0					
11-28-31	3	10.711	1	8:20P	50	.02	VL	VL	VL	46	31			0					
11-28-31	5	5.532	1	8:20P	50	.02	VL	VL	VL	46	31			0					
11-28-31	6	6.044	1	8:20P	50	.02	VL	VL	VL	46	31			0					
11-29-31	1	11.530	1	1:20A	110	.17	.12	VL	VL	50	40			0					
11-29-31	2	9.386	1	1:20A	110	.17	.12	VL	VL	50	40			0					
11-29-31	3	10.711	1	1:20A	110	.17	.12	VL	VL	50	40			0					
11-29-31	5	5.532	1	1:20A	110	.17	.12	VL	VL	50	40			0					
11-29-31	6	6.044	1	1:20A	110	.17	.12	VL	VL	50	40			0					
12-1-31	1	11.530	1	No chart		.20	No chart			44	31			0					
12-1-31	2	9.386	1	No chart		.20	No chart			44	31			0					
12-1-31	3	10.711	1	No chart		.20	No chart			44	31			0					
12-1-31	5	5.532	1	No chart		.20	No chart			44	31			0					
12-1-31	6	6.044	1	No chart		.20	No chart			44	31			0					
12-2-31	1	11.530	1	No chart		.01	No chart			50	32			0					
12-2-31	2	9.386	1	No chart		.01	No chart			50	32			0					
12-2-31	3	10.711	1	No chart		.01	No chart			50	32			0					
12-2-31	5	5.532	1	No chart		.01	No chart			50	32			0					
12-2-31	6	6.044	1	No chart		.01	No chart			50	32			0					
12-7-31	1	11.530	1	9:30P	120	.05	VL	VL	VL	50	30			0					
12-8-31	1	11.530	1	2:30A	210	.18	.24	.12	.12	46	37			0					
12-7-31	2	9.386	1	9:30P	120	.05	VL	VL	VL	50	30			0					
12-8-31	2	9.386	1	2:30A	210	.18	.24	.12	.12	46	37			0					
12-7-31	3	10.711	1	9:30P	120	.05	VL	VL	VL	50	30			0					
12-8-31	3	10.711	1	2:30A	210	.18	.24	.12	.12	46	37			0					
12-7-31	5	5.532	1	9:30P	120	.05	VL	VL	VL	50	30			0					
12-8-31	5	5.532	1	2:30A	210	.18	.24	.12	.12	46	37			0					
12-7-31	6	6.044	1	9:30P	120	.05	VL	VL	VL	50	30			0					
12-8-31	6	6.044	1	2:30A	210	.18	.24	.12	.12	46	37			0					
12-16-31	1	11.530	1	No chart		.04	No chart			53	23			0					
12-16-31	2	9.386	1	No chart		.04	No chart			53	23			0					
12-16-31	3	10.711	1	No chart		.04	No chart			53	23			0					
12-16-31	5	5.532	1	No chart		.04	No chart			53	23			0					
12-16-31	6	6.044	1	No chart		.04	No chart			53	23			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Dec., Jan., , 1931-32

Project Spur, Texas.

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 42 of 99 sheets

Date	Watershed		Rainfall							Temperatures (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
12-17-31	1	11.530	1	No chart		.13	No chart			51	30			0					
12-17-31	2	9.386	1	No chart		.13	No chart			51	30			0					
12-17-31	3	10.711	1	No chart		.13	No chart			51	30			0					
12-17-31	5	5.532	1	No chart		.13	No chart			51	30			0					
12-17-31	6	6.044	1	No chart		.13	No chart			51	30			0					
12-19-31	1	11.530	1	9:00P	70	.04	VL	VL	VL	45	26			0					
12-20-31	1	11.530	1	12:10A	280	.53	.48	.16	.12	54	25			0					
12-19-31	2	9.386	1	9:00P	70	.04	VL	VL	VL	45	26			0					
12-20-31	2	9.386	1	12:10A	280	.53	.48	.16	.12	54	25			0					
12-19-31	3	10.711	1	9:00P	70	.04	VL	VL	VL	45	26			0					
12-20-31	3	10.711	1	12:10A	280	.53	.48	.16	.12	54	25			0					
12-19-31	5	5.532	1	9:00P	70	.04	VL	VL	VL	45	26			0					
12-20-31	5	5.532	1	12:10A	280	.53	.48	.16	.12	54	25			0					
12-19-31	6	6.044	1	9:00P	70	.04	VL	VL	VL	45	26			0					
12-20-31	6	6.044	1	12:10A	280	.53	.48	.16	.12	54	25			0					
1932																			
1-4-32	1	11.530	1	1:40P	230	.99	.96	.48	.36	47	40			0					
1-4-32	2	9.386	1	1:40P	230	.99	.96	.48	.36	47	40			0					
1-4-32	3	10.711	1	1:40P	230	.99	.96	.48	.36	47	40			0					
1-4-32	5	5.532	1	1:40P	230	.99	.96	.48	.36	47	40			0					
1-4-32	6	6.044	1	1:40P	230	.99	.96	.48	.36	47	40			0					
1-5-32	1	11.530	1	No chart		.10	No chart			39	31			0					
1-5-32	2	9.386	1	No chart		.10	No chart			39	31			0					
1-5-32	3	10.711	1	No chart		.10	No chart			39	31			0					
1-5-32	5	5.532	1	No chart		.10	No chart			39	31			0					
1-5-32	6	6.044	1	No chart		.10	No chart			39	31			0					
1-15-32	1	11.530	1	12:40P	330	.24	.48	.24	.16	36	30			0					
1-16-32	1	11.530	1	6:00P	170	.35	.48	.30	.24	58	30			0					
1-15-32	2	9.386	1	12:40P	330	.24	.48	.24	.16	36	30			0					
1-16-32	2	9.386	1	6:00P	170	.35	.48	.30	.24	58	30			0					
1-15-32	3	10.711	1	12:40P	330	.24	.48	.24	.16	36	30			0					
1-16-32	3	10.711	1	6:00P	170	.35	.48	.30	.24	58	30			0					
1-15-32	5	5.532	1	12:40P	330	.24	.48	.24	.16	36	30			0					
1-16-32	5	5.532	1	6:00P	170	.35	.48	.30	.24	58	30			0					
1-15-32	6	6.044	1	12:40P	330	.24	.48	.24	.16	36	30			0					
1-16-32	6	6.044	1	6:00P	170	.35	.48	.30	.24	58	30			0					
1-25-32	1	11.530	1	No chart		.03	No chart			34	29			0					
1-25-32	2	9.386	1	No chart		.03	No chart			34	29			0					
1-25-32	3	10.711	1	No chart		.03	No chart			34	29			0					
1-25-32	5	5.532	1	No chart		.03	No chart			34	29			0					
1-25-32	6	6.044	1	No chart		.03	No chart			34	29			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH Feb., April, 19 32

SHEET 43 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOAD (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
2-11-32	1	11.530	1	No chart		.05	No chart			72	30			0					
2-11-32	2	9.386	1	No chart		.05	No chart			72	30			0					
2-11-32	3	10.711	1	No chart		.05	No chart			72	30			0					
2-11-32	5	5.532	1	No chart		.05	No chart			72	30			0					
2-11-32	6	6.044	1	No chart		.05	No chart			72	30			0					
2-15-32	1	11.530	1	No chart		.25	No chart			58	42			0					
2-15-32	2	9.386	1	No chart		.25	No chart			58	42			0					
2-15-32	3	10.711	1	No chart		.25	No chart			58	42			0					
2-15-32	5	5.532	1	No chart		.25	No chart			58	42			0					
2-15-32	6	6.044	1	No chart		.25	No chart			58	42			0					
2-15-32	1	11.530	1	No chart		.04	No chart			66	42			0					
2-15-32	2	9.386	1	No chart		.04	No chart			66	42			0					
2-15-32	3	10.711	1	No chart		.04	No chart			66	42			0					
2-15-32	5	5.532	1	No chart		.04	No chart			66	42			0					
2-15-32	6	6.044	1	No chart		.04	No chart			66	42			0					
2-20-32	1	11.530	1	No chart		.82	No chart			46	34			0					
2-20-32	2	9.386	1	No chart		.82	No chart			46	34			0					
2-20-32	3	10.711	1	No chart		.82	No chart			46	34			0					
2-20-32	5	5.532	1	No chart		.82	No chart			46	34			0					
2-20-32	6	6.044	1	No chart		.82	No chart			46	34			0					
2-21-32	1	11.530	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	1	11.530	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	1	11.530	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	2	9.386	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	2	9.386	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	2	9.386	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	3	10.711	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	3	10.711	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	3	10.711	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	5	5.532	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	5	5.532	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	5	5.532	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	6	6.044	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	6	6.044	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	6	6.044	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
4-15-32	1	11.530	1	No chart		.03	No chart			79	56			0					
4-15-32	2	9.386	1	No chart		.03	No chart			79	56			0					
4-15-32	3	10.711	1	No chart		.03	No chart			79	56			0					
4-15-32	5	5.532	1	No chart		.03	No chart			79	56			0					
4-15-32	6	6.044	1	No chart		.03	No chart			79	56			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Feb., April, 19 32

Project Spur, Texas.

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 43 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (Degrees F.)		Run-off			Maximum Rate		Rainfall Minus Run-off (inches)	Silt Load (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
2-11-32	1	11.530	1	No chart		.05	No chart			72	30			0					
2-11-32	2	9.386	1	No chart		.05	No chart			72	30			0					
2-11-32	3	10.711	1	No chart		.05	No chart			72	30			0					
2-11-32	5	5.532	1	No chart		.05	No chart			72	30			0					
2-11-32	6	6.044	1	No chart		.05	No chart			72	30			0					
2-15-32	1	11.530	1	No chart		.25	No chart			58	42			0					
2-15-32	2	9.386	1	No chart		.25	No chart			58	42			0					
2-15-32	3	10.711	1	No chart		.25	No chart			58	42			0					
2-15-32	5	5.532	1	No chart		.25	No chart			58	42			0					
2-15-32	6	6.044	1	No chart		.25	No chart			58	42			0					
2-15-32	1	11.530	1	No chart		.04	No chart			66	42			0					
2-15-32	2	9.386	1	No chart		.04	No chart			66	42			0					
2-15-32	3	10.711	1	No chart		.04	No chart			66	42			0					
2-15-32	5	5.532	1	No chart		.04	No chart			66	42			0					
2-15-32	6	6.044	1	No chart		.04	No chart			66	42			0					
2-20-32	1	11.530	1	No chart		.82	No chart			46	34			0					
2-20-32	2	9.386	1	No chart		.82	No chart			46	34			0					
2-20-32	3	10.711	1	No chart		.82	No chart			46	34			0					
2-20-32	5	5.532	1	No chart		.82	No chart			46	34			0					
2-20-32	6	6.044	1	No chart		.82	No chart			46	34			0					
2-21-32	1	11.530	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	1	11.530	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	1	11.530	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	2	9.386	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	2	9.386	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	2	9.386	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	3	10.711	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	3	10.711	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	3	10.711	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	5	5.532	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	5	5.532	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	5	5.532	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
2-21-32	6	6.044	1	12:30P	70		.12	VL	VL	47	33			0					
2-21-32	6	6.044	1	8:30P	110		.48	.32	.28	47	33			0					
2-22-32	6	6.044	1	12:00M	460	1.23	.36	.18	.10	45	35			0					
4-15-32	1	11.530	1	No chart		.03	No chart			79	56			0					
4-15-32	2	9.386	1	No chart		.03	No chart			79	56			0					
4-15-32	3	10.711	1	No chart		.03	No chart			79	56			0					
4-15-32	5	5.532	1	No chart		.03	No chart			79	56			0					
4-15-32	6	6.044	1	No chart		.03	No chart			79	56			0					

Form S. C. S.-245

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month April, May, 1932

Sheet 44 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
4-18-32	1	11.530	1	No chart		.11	No chart			84	52			0					
4-18-32	2	9.386	1	No chart		.11	No chart			84	52			0					
4-18-32	3	10.711	1	No chart		.11	No chart			84	52			0					
4-18-32	5	5.532	1	No chart		.11	No chart			84	52			0					
4-18-32	6	6.044	1	No chart		.11	No chart			84	52			0					
4-23-32	1	11.530	1	No chart		.19	No chart			85	45			0					
4-23-32	2	9.386	1	No chart		.19	No chart			85	45			0					
4-23-32	3	10.711	1	No chart		.19	No chart			85	45			0					
4-23-32	5	5.532	1	No chart		.19	No chart			85	45			0					
4-23-32	6	6.044	1	No chart		.19	No chart			85	45			0					
4-26-32	1	11.530	1	5:10P	25		1.20	.56		81	45			0					
4-26-32	1	11.530	1	11:30P	30	.23	.12	VL		81	45			0					
4-26-32	2	9.386	1	5:10P	25		1.20	.56		81	45			0					
4-26-32	2	9.386	1	11:30P	30	.23	.12	VL		81	45			0					
4-26-32	3	10.711	1	5:10P	25		1.20	.56		81	45			0					
4-26-32	3	10.711	1	11:30P	30	.23	.12	VL		81	45			0					
4-26-32	5	5.532	1	5:10P	25		1.20	.56		81	45			0					
4-26-32	5	5.532	1	11:30P	30	.23	.12	VL		81	45			0					
4-26-32	6	6.044	1	5:10P	25		1.20	.56		81	45			0					
4-26-32	6	6.044	1	11:30P	30	.23	.12	VL		81	45			0					
4-27-32	1	11.530	1	11:30P	30		.24	.18	.10	66	44			0					
4-28-32	1	11.530	1	12:00M	360		.42	.22	.16	66	44								
4-28-32	1	11.530	1	9:00P	90	1.35	1.44	.98	.80	69	42			0					
4-27-32	2	9.386	1	11:30P	30		.24	.18	.10	66	44								
4-28-32	2	9.386	1	12:00M	360		.42	.22	.16	66	44								
4-28-32	2	9.386	1	9:00P	90	1.35	1.44	.18	.80	69	42	Runoff chart		.08	Not available		1.27		Runoff from station annual report
4-27-32	3	10.711	1	11:30P	30		.24	.18	.10	66	44								Runoff includes both 27-28 not
4-28-32	3	10.711	1	12:00M	360		.42	.22	.16	66	44								just one rain.
4-28-32	3	10.711	1	9:00P	90	1.34	1.44	.96	.80	69	42								
4-27-32	5	5.532	1	11:30P	80		.24	.18	.10	66	44								
4-28-32	5	5.532	1	12:00M	360		.42	.22	.16	66	44								
4-28-32	5	5.532	1	9:00P	90	1.35	1.44	.96	.80	69	42								
4-27-32	6	6.044	1	11:30P	30		.24	.18	.10	66	44								
4-28-32	6	6.044	1	12:00M	360		.42	.22	.16	66	44								
4-28-32	6	6.044	1	9:00P	90	1.35	1.44	.96	.80	69	42								
5-6-32	1	11.530	1	12:20A	190	.62	2.64	1.60	.92	79	55			0					
5-6-32	2	9.386	1	12:20A	190	.62	2.64	1.60	.92	79	55	Runoff chart		.06	not available		.56		Runoff from station annual report
5-6-32	3	10.711	1	12:20A	190	.62	2.64	1.60	.92	79	55			0					
5-6-32	5	5.532	1	12:20A	190	.62	2.64	1.60	.92	79	55			0					
5-6-32	6	6.044	1	12:20A	190	.62	2.64	1.60	.92	79	55			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

MONTH May, 1932

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET 45 OF 99 SHEETS

PROJECT Spur, Texas.

Date	Watershed		Rainfall				Maximum Intensity			Temperatures (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate: Cu. ft. sec.	Maximum Rate: Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-12-32	1	11.530	1	No chart		.02	No chart			77	54			0					
5-12-32	2	9.386	1	No chart		.02	No chart			77	54			0					
5-12-32	3	10.711	1	No chart		.02	No chart			77	54			0					
5-12-32	5	5.532	1	No chart		.02	No chart			77	54			0					
5-12-32	6	6.044	1	No chart		.02	No chart			77	54			0					
5-15-32	1	11.530	1	6:30P	90	.30	1.44	.56	.32	82	58			0					
5-15-32	1	11.530	1	3:00A	120	.11	.12	VL	VL	82	58			0					
5-15-32	2	9.386	1	6:30P	90	.30	1.44	.56	.32	82	58			0					
5-15-32	2	9.386	1	3:00A	120	.11	.12	VL	VL	82	58			0					
5-15-32	3	10.711	1	6:30P	90	.30	1.44	.56	.32	82	58			0					
5-15-32	3	10.711	1	3:00A	120	.11	.12	VL	VL	82	58			0					
5-15-32	5	5.532	1	6:30P	90	.30	1.44	.56	.32	82	58			0					
5-15-32	5	5.532	1	3:00A	120	.11	.12	VL	VL	82	58			0					
5-15-32	6	6.044	1	6:30P	90	.30	1.44	.56	.32	82	58			0					
5-15-32	6	6.044	1	3:00A	120	.11	.12	VL	VL	82	58			0					
5-16-32	1	11.530	1	8:50P	20	.06	VL	VL		78	49			0					
5-16-32	2	9.386	1	8:50P	20	.06	VL	VL		78	49			0					
5-16-32	3	10.711	1	8:50P	20	.06	VL	VL		78	49			0					
5-16-32	5	5.532	1	8:50P	20	.06	VL	VL		78	49			0					
5-16-32	6	6.044	1	8:50P	20	.06	VL	VL		78	49			0					
5-24-32	1	11.530	1	3:20P	190	.10	.12	VL	VL	87	61			0					
5-24-32	2	9.386	1	3:20P	190	.10	.12	VL	VL	87	61			0					
5-24-32	3	10.711	1	3:20P	190	.10	.12	VL	VL	87	61			0					
5-24-32	5	5.532	1	3:20P	190	.10	.12	VL	VL	87	61			0					
5-24-32	6	6.044	1	3:20P	190	.10	.12	VL	VL	87	61			0					
5-25-32	1	11.530	1	8:40P	40	.09	.24	.16	.12	87	60			0					
5-25-32	2	9.386	1	8:40P	40	.09	.24	.16	.12	87	60			0					
5-25-32	3	10.711	1	8:40P	40	.09	.24	.16	.12	87	60			0					
5-25-32	5	5.532	1	8:40P	40	.09	.24	.16	.12	87	60			0					
5-25-32	6	6.044	1	8:40P	40	.09	.24	.16	.12	87	60			0					
5-29-32	1	11.530	1	12:20A	50	.11	.96	.48	.24	83	55			0					
5-29-32	2	9.386	1	12:20A	50	.11	.96	.48	.24	83	55			0					
5-29-32	3	10.711	1	12:20A	50	.11	.96	.48	.24	83	55			0					
5-29-32	5	5.532	1	12:20A	50	.11	.96	.48	.24	83	55			0					
5-29-32	6	6.044	1	12:20A	50	.11	.96	.48	.24	83	55			0					
5-30-32	1	11.530	1	No chart		.02	No chart			86	64			0					
5-30-32	2	9.386	1	No chart		.02	No chart			86	64			0					
5-30-32	3	10.711	1	No chart		.02	No chart			86	64			0					
5-30-32	5	5.532	1	No chart		.02	No chart			86	64			0					
5-30-32	6	6.044	1	No chart		.02	No chart			86	64			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month June, 1932

Sheet 46 of 99 sheets

U. S. GOVERNMENT PRINTING OFFICE 8-12368

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-6-32	1	11.530	1	6:20P	30	.26	1.92	.96	.52	90	60			0					
6-6-32	2	9.386	1	6:20P	30	.26	1.92	.96	.52	90	60			0					
6-6-32	3	10.711	1	6:20P	30	.26	1.92	.96	.52	90	60			0					
6-6-32	5	5.532	1	6:20P	30	.26	1.92	.96	.52	90	60			0					
6-6-32	6	6.044	1	6:20P	30	.26	1.92	.96	.52	90	60			0					
6-7-32	1	11.530	1	10:30P	30	.14	.84	.48	.28	95	62			0					
6-7-32	2	9.386	1	10:30P	30	.14	.84	.48	.28	95	62			0					
6-7-32	3	10.711	1	10:30P	30	.14	.84	.48	.28	95	62			0					
6-7-32	5	5.532	1	10:30P	30	.14	.84	.48	.28	95	62			0					
6-7-32	6	6.044	1	10:30P	30	.14	.84	.48	.28	95	62			0					
6-8-32	1	11.530	1	8:30P	160	.38	1.20	.56	.48	89	61			0					
6-9-32	1	11.530	1	4:40A	60	.11	.48	.32	.22	89	61			0					
6-8-32	2	9.386	1	8:30P	160	.38	1.20	.56	.48	89	61			0					
6-9-32	2	9.386	1	4:40A	60	.11	.48	.32	.22	89	61			0					
6-8-32	3	10.711	1	8:30P	160	.38	1.20	.56	.48	89	61			0					
6-9-32	3	10.711	1	4:40A	60	.11	.48	.32	.22	89	61			0					
6-8-32	5	5.532	1	8:30P	160	.38	1.20	.56	.48	89	61			0					
6-9-32	5	5.532	1	4:40A	60	.11	.48	.32	.22	89	61			0					
6-8-32	6	6.044	1	8:30P	160	.38	1.20	.56	.48	89	61			0					
6-9-32	6	6.044	1	4:40A	60	.11	.48	.32	.22	89	61			0					
6-10-32	1	11.530	1	4:10A	10	.19	1.44			92	60			0					
6-10-32	2	9.386	1	4:10A	10	.19	1.44			92	60			0					
6-10-32	3	10.711	1	4:10A	10	.19	1.44			92	60			0					
6-10-32	5	5.532	1	4:10A	110	.19	1.44			92	60			0					
6-10-32	6	6.044	1	4:10A	10	.19	1.44			92	60			0					
6-12-32	1	11.530	1	2:30A	30	.08	.12			91	61			0					
6-12-32	2	9.386	1	2:30A	30	.08	.12			91	61			0					
6-12-32	3	10.711	1	2:30A	30	.08	.12			91	61			0					
6-12-32	5	5.532	1	2:30A	30	.08	.12			91	61			0					
6-12-32	6	6.044	1	2:30A	30	.08	.12			91	61			0					
6-20-32	11	8.699	1	7:40P	170	1.75	7.92	3.72		90	48	8:40p	1:50A	.56	5.6	8:55p	1.19		
6-20-32	1	11.530	1	7:40P	170	1.75	7.92	3.72	2.74	90	48	8:10P	11:10P	.80	12.2	8:25P	.95		
6-20-32	2	9.386	1	7:40P	170	1.75	7.92	3.72	2.74	90	48	Runoff chart		1.51	not available		.24		Runoff from station annual report
6-20-32	3	10.711	1	7:40P	170	1.75	7.92	3.72	2.74	90	48	8:10P	12:25P	.76	8.50	8:35P	.99		
6-20-32	5	5.532	1	7:40P	170	1.75	7.92	3.72	2.74	90	48	8:20P	12:40P	.81	11.10	8:30P	.94		
6-20-32	6	6.041	1	7:40P	170	1.75	7.92	3.72	2.74	90	48	Runoff chart		.52	not available		1.23		Runoff from station annual report
6-20-32	14	8.522		7:40P	170	1.75	7.92	3.72			48	8:15p	2:20A	.66	6.0	8:35p			
6-22-32	1	11.530	1	No chart		.03	No chart			85	46			0					
6-22-32	2	9.386	1	No chart		.03	No chart			85	46			0					
6-22-32	3	10.711	1	No chart		.03	No chart			85	46			0					
6-22-32	5	5.532	1	No chart		.03	No chart			85	46			0					
6-22-32	6	6.044	1	No chart		.03	No chart			85	46			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH June, July, 1932

SHEET 47 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-25-32	1	11.530	1	4:20A	20	.09	.24	VL		93	65			0					
6-25-32	2	9.386	1	4:20A	20	.09	.24	VL		93	65			0					
6-25-32	3	10.711	1	4:20A	20	.09	.24	VL		93	65			0					
6-25-32	5	5.532	1	4:20A	20	.09	.24	VL		93	65			0					
6-25-32	6	6.044	1	4:20A	20	.09	.24	VL		93	65			0					
6-26-32	1	11.530	1	2:20A	60	.06	VL	VL	VL	94	66			0					
6-26-32	2	9.386	1	2:20A	60	.06	VL	VL	VL	94	66			0					
6-26-32	3	10.711	1	2:20A	60	.06	VL	VL	VL	94	66			0					
6-26-32	5	5.532	1	2:20A	60	.06	VL	VL	VL	94	66			0					
6-26-32	6	6.044	1	2:20A	60	.06	VL	VL	VL	94	66			0					
6-29-32	1	11.530	1	4:20A	40	.29	1.44	.56	.52	96	68			0					
6-29-32	2	9.386	1	4:20A	40	.29	1.44	.56	.52	96	68			0					
6-29-32	3	10.711	1	4:20A	40	.29	1.44	.56	.52	96	68			0					
6-29-32	5	5.532	1	4:20A	40	.29	1.44	.56	.52	96	68			0					
6-29-32	6	6.044	1	4:20A	40	.29	1.44	.56	.52	96	68			0					
7-1-32	1	11.530	1	3:30P	120	.60	1.44	1.36	.96	92	69			0					
7-1-32	2	9.386	1	3:30P	120	.60	1.44	1.36	.96	92	69			0					
7-1-32	3	10.711	1	3:30P	120	.60	1.44	1.36	.96	92	69			0					
7-1-32	5	5.532	1	3:30P	120	.60	1.44	1.36	.96	92	69			0					
7-1-32	6	6.044	1	3:30P	120	.60	1.44	1.36	.96	92	69	Runoff	chart	.05	not available				Runoff from station annual report.
7-2-32	1	11.530	1	3:50A	10	.08	.72			82	67			0					
7-2-32	2	9.386	1	3:50A	10	.08	.72			82	67			0					
7-2-32	3	10.711	1	3:50A	10	.08	.72			82	67			0					
7-2-32	5	5.532	1	3:50A	10	.08	.72			82	67			0					
7-2-32	6	6.044	1	3:50A	10	.08	.72			82	67			0					
7-3-32	1	11.530	1	7:00P	10	.08	.48			91	69			0					
7-3-32	2	9.386	1	7:00P	10	.08	.48			91	69			0					
7-3-32	3	10.711	1	7:00P	10	.08	.48			91	69			0					
7-3-32	5	5.532	1	7:00P	10	.08	.48			91	69			0					
7-3-32	6	6.044	1	7:00P	10	.08	.48			91	69			0					
7-4-32	1	11.530	1	6:00A	5	.01	.12			93	69			0					
7-4-32	2	9.386	1	6:00A	5	.01	.12			93	69			0					
7-4-32	3	10.711	1	6:00A	5	.01	.12			93	69			0					
7-4-32	5	5.532	1	6:00A	5	.01	.12			93	69			0					
7-4-32	6	6.044	1	6:00A	5	.01	.12			93	69			0					
7-6-32	1	11.530	1	10:50P	30	.15	1.20	.48	.30	90	65			0					
7-6-32	2	9.386	1	10:50P	30	.15	1.20	.48	.30	90	65			0					
7-6-32	3	10.711	1	10:50P	30	.15	1.20	.48	.30	90	65			0					
7-6-32	5	5.532	1	10:50P	30	.15	1.20	.48	.30	90	65			0					
7-6-32	6	6.044	1	10:50P	30	.15	1.20	.48	.30	90	65			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH July, August , 19 32

SHEET 48 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-21-32	1	11.530	1	8:50A	5		2.04	0.68	0.34	97	70								
7-21-32	1	11.530	1	1:00P	80	1.35	4.08	2.68	1.88	97	70	1:15P	6:30P	.40	4.2	1:55P	.95		
7-21-32	2	9.386	1	8:50A	5		2.04	0.68	0.34	97	70								
7-21-32	2	9.386	1	1:00P	80	1.35	4.08	2.68	1.88	97	70	1:10P	5:00P	.38	3.3	1:35P	.97		
7-21-32	3	10.711	1	8:55A	5		2.04	0.68	0.34	97	70								
7-21-32	3	10.711	1	1:00P	80	1.35	4.08	2.68	1.88	97	70	1:25P	4:30P	.17	1.5	2:00P	1.18		
7-21-32	5	5.532	1	8:55P	5		2.04	0.68	0.34	97	70								
7-21-32	5	5.532	1	1:00P	80	1.35	4.08	2.68	1.88	97	70	1:15P	3:10P	.42	3.5	1:35P	.93		
7-21-32	6	6.044	1	8:55P	5		2.04	0.68	0.34	97	70								
7-21-32	6	6.044	1	1:00P	80	1.35	4.08	2.68	1.88	97	70	1:25P	3:20P	.16	1.1	1:50P	1.19		
7-21-32	1	11.530	1	10:00P	120		.24	.16	.12	97	70			0					
7-22-32	1	11.530	1	12:00M	130	.40	.12	VL	VL	87	67			0					
7-21-32	2	9.386	1	10:00P	120		.24	.16	.12	97	70			0					
7-22-32	2	9.386	1	12:00M	130	.40	.12	VL	VL	87	67			0					
7-21-32	3	10.711	1	10:00P	120		.24	.16	.12	97	70			0					
7-22-32	3	10.711	1	12:00M	130	.40	.12	VL	VL	87	67			0					
7-21-32	5	5.532	1	10:00P	120		.24	.16	.12	97	70			0					
7-22-32	5	5.532	1	12:00M	130	.40	.12	VL	VL	87	67			0					
7-21-32	6	6.044	1	10:00P	120		.24	.16	.12	97	70			0					
7-22-32	6	6.044	1	12:00M	130	.40	.12	VL	VL	87	67			0					
8-7-32	1	11.530	1	6:00A	70	.39	.96	.48	.36	101	68			0					
8-7-32	2	9.386	1	6:00A	70	.39	.96	.48	.36	101	68			0					
8-7-32	3	10.711	1	6:00A	70	.39	.96	.48	.36	101	68			0					
8-7-32	5	5.532	1	6:00A	70	.39	.96	.48	.36	101	68			0					
8-7-32	6	6.044	1	6:00A	70	.39	.96	.48	.36	101	68			0					
8-9-32	1	11.530	1	11:10A	60	.46	2.40	1.12	.84	86	66			0					
8-9-32	2	9.386	1	11:10A	60	.46	2.40	1.12	.84	86	66			0					
8-9-32	3	10.711	1	11:10A	60	.46	2.40	1.12	.84	86	66			0					
8-9-32	5	5.532	1	11:10A	60	.46	2.40	1.12	.84	86	66			0					
8-9-32	6	6.044	1	11:10A	60	.46	2.40	1.12	.84	86	66			0					
8-10-32	1	11.530	1	4:50P	20	.05	VL	VL		85	67			0					
8-10-32	2	9.386	1	4:50P	20	.05	VL	VL		85	67			0					
8-10-32	3	10.711	1	4:50P	20	.05	VL	VL		85	67			0					
8-10-32	5	5.532	1	4:50P	20	.05	VL	VL		85	67			0					
8-10-32	6	6.044	1	4:50P	20	.05	VL	VL		85	67			0					
8-14-32	1	11.530	1	9:35P	145	.20 3.00	.24	.12	.12	95	69								
8-15-32	1	11.530	1	12:00M	780	2.80	1.20	.88	.74	89	62	3:35A	10:30A	.34	1.5	6:45A	2.66		
8-14-32	2	9.386	1	9:35P	145	.20 3.00	.24	.12	.12	95	69								
8-15-32	2	9.386	1	12:00M	780	2.80	1.20	.88	.74	89	62	2:15A	9:50A	.68	1.6	6:20A	2.42		
8-14-32	3	10.711	1	9:35P	145	.20 3.00	.24	.12	.12	95	69								
8-15-32	3	10.711	1	12:00M	780	2.80	1.20	.88	.74	89	62	3:30A	9:35A	.29	1.4	6:35A	2.71		

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH August, September, 19 32

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-14-32	5	5.532	1	9:35P	145	.20	.24	.12	.12	95	69								
8-15-32	5	5.532	1	12:00M	780	2.80	1.20	.88	.74	89	62	2:45A	8:00A	.51	1.20	5:45A	2.49		
8-14-32	6	6.044	1	9:35P	145	.20	.24	.12	.12	95	69								
8-15-32	6	6.044	1	12:00M	780	2.80	1.20	.88	.74	89	62	2:55A	8:00A	.25	0.7	5:45A	2.75		
8-16-32	1	11.530	1	No chart		.02	No chart			89	66			0					
8-16-32	2	9.386	1	No chart		.02	No chart			89	66			0					
8-16-32	3	10.711	1	No chart		.02	No chart			89	66			0					
8-16-32	5	5.532	1	No chart		.02	No chart			89	66			0					
8-16-32	6	6.044	1	No chart		.02	No chart			89	66			0					
8-30-32	1	11.530	1	3:20P	25	.28	2.40	1.12		85	70			0					
8-30-32	1	11.530	1	7:10P	35	.05	VL	VL	VL	85	70			0					
8-30-32	2	9.386	1	3:20P	25	.28	2.40	1.12		85	70			0					
8-30-32	2	9.386	1	7:10P	35	.05	VL	VL	VL	85	70			0					
8-30-32	3	10.711	1	3:20P	25	.28	2.40	1.12		85	70			0					
8-30-32	3	10.711	1	7:10P	35	.05	VL	VL	VL	85	70			0					
8-30-32	5	5.532	1	3:20P	25	.28	2.40	1.12		85	70			0					
8-30-32	5	5.532	1	7:10P	35	.05	VL	VL	VL	85	70			0					
8-30-32	6	6.044	1	3:20P	25	.28	2.40	1.12		85	70			0					
8-30-32	6	6.044	1	7:10P	35	.05	VL	VL	VL	85	70			0					
8-31-32	1	11.530	1	12:00M	630	1.30	1.94	.90	.58	77	67			0					
8-31-32	2	9.386	1	12:00M	630	1.30	1.94	.90	.58	77	67			0					
8-31-32	3	10.711	1	12:00M	630	1.30	1.94	.90	.58	77	67			0					
8-31-32	5	5.532	1	12:00M	630	1.30	1.94	.90	.58	77	67			0					
8-31-32	6	6.044	1	12:00M	630	1.30	1.94	.90	.58	77	67			0					
9-1-32	1	11.530	1	6:00A	55	.06	VL	VL	VL	68	72			0					
9-1-32	2	9.386	1	6:00A	55	.06	VL	VL	VL	68	72			0					
9-1-32	3	10.711	1	6:00A	55	.06	VL	VL	VL	68	72			0					
9-1-32	5	5.532	1	6:00A	55	.06	VL	VL	VL	68	72			0					
9-1-32	6	6.044	1	6:00A	55	.06	VL	VL	VL	68	72			0					
9-2-32	1	11.530	1	8:30A	340	.45	.48	.24	.16	72	64			0					
9-2-32	2	9.386	1	8:30A	340	.45	.48	.24	.16	72	64			0					
9-2-32	3	10.711	1	8:30A	340	.45	.48	.24	.16	72	64			0					
9-2-32	5	5.532	1	8:30A	340	.45	.48	.24	.16	72	64			0					
9-2-32	6	6.044	1	8:30A	340	.45	.48	.24	.16	72	64			0					
9-3-32	1	11.530	1	No chart		.01	No chart			81	65			0					
9-3-32	2	9.386	1	No chart		.01	No chart			81	65			0					
9-3-32	3	10.711	1	No chart		.01	No chart			81	65			0					
9-3-32	5	5.532	1	No chart		.01	No chart			81	65			0					
9-3-32	6	6.044	1	No chart		.01	No chart			81	65			0					

Form S. C. S.-346

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month: September , 1932

Project: Spur, Texas.

Sheet 50 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu ft. sec.	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-6-32	1	11.530	1	2:30A	310	.30	.24	.16	.08	81	65								
9-6-32	1	11.530	1	7:40A	450	.77	.48	.32	.24	81	65			0					
9-6-32	2	9.386	1	2:30A	310	.30	.24	.16	.08	81	65								
9-6-32	2	9.386	1	7:40A	450	.77	.48	.32	.24	81	65	Runoff	chart	.03	not available		1.04		Runoff from station annual report
9-6-32	3	10.711	1	2:30A	310	.30	.24	.16	.08	81	65								
9-6-32	3	10.711	1	7:40A	450	.77	.48	.32	.24	81	65			0					
9-6-32	5	5.532	1	2:30A	310	.30	.24	.16	.08	81	65								
9-6-32	5	5.532	1	7:40A	450	.77	.48	.32	.24	81	65	Runoff	chart	.05	Not available		1.02		
9-6-32	6	6.044	1	2:30A	310	.30	.24	.16	.08	81	65								
9-6-32	6	6.044	1	7:40A	450	.77	.48	.32	.24	81	65			0					
9-7-32	1	11.530	1	2:20A	600	1.25	3.00	1.20	.66	69	60	8:00A	1:50P	.07	0.3	10:30A	1.18		
9-7-32	2	9.386	1	2:20A	600	1.25	3.00	1.20	.66	69	60	6:55A	1:00P	.08	.21	8:00A	1.17		
9-7-32	3	10.711	1	2:20A	600	1.25	3.00	1.20	.66	69	60	8:25A	2:30P	.08	.27	11:00A	1.17		
9-7-32	5	5.532	1	2:20A	600	1.25	3.00	1.20	.66	69	60	7:40A	2:00P	.13	.32	9:35A	1.12		
9-7-32	6	6.044	1	2:20A	600	1.25	3.00	1.20	.66	69	60	8:00A	12:20P	.03	.05	8:25A	1.22		
9-8-32	1	11.530	1	No chart		.03	No chart			72	58			0					
9-8-32	2	9.386	1	No chart		.03	No chart			72	58			0					
9-8-32	3	10.711	1	No chart		.03	No chart			72	58			0					
9-8-32	5	5.532	1	No chart		.03	No chart			72	58			0					
9-8-32	6	6.044	1	No chart		.03	No chart			72	58			0					
9-22-32	1	11.530	1	2:00P	300	.21	.72	.24	.16	68	59			0					
9-22-32	2	9.386	1	2:00p	300	.21	.72	.24	.16	68	59			0					
9-22-32	3	10.711	1	2:00P	300	.21	.72	.24	.16	68	59			0					
9-22-32	5	5.532	1	2:00P	300	.21	.72	.24	.16	68	59			0					
9-22-32	6	6.044	1	2:00P	300	.21	.72	.24	.16	68	59			0					
9-23-32	1	11.530	1	5:40A	40	.13	VL	VL	VL	69	59			0					
9-23-32	2	9.386	1	5:40A	40	.13	VL	VL	VL	69	59			0					
9-23-32	3	10.711	1	5:40A	40	.13	VL	VL	VL	69	59			0					
9-23-32	5	5.532	1	5:40A	40	.13	VL	VL	VL	69	59			0					
9-23-32	6	6.044	1	5:40A	40	.13	VL	VL	VL	69	59			0					
9-24-32	1	11.530	1	6:30P	70	.08	VL	VL	VL	65	59			0					
9-24-32	2	9.386	1	6:30P	70	.08	VL	VL	VL	65	59			0					
9-24-32	3	10.711	1	6:30P	70	.08	VL	VL	VL	65	59			0					
9-24-32	5	5.532	1	6:30P	70	.08	VL	VL	VL	65	59			0					
9-24-32	6	6.044	1	6:30P	70	.08	VL	VL	VL	65	59			0					
9-25-32	1	11.530	1	3:30P	30	.24	.72	.56	.48	62	58			0					
9-25-32	2	9.386	1	3:30P	30	.24	.72	.56	.48	62	58			0					
9-25-32	3	10.711	1	3:30P	30	.24	.72	.56	.48	62	58			0					
9-25-32	5	5.532	1	3:30P	30	.24	.72	.56	.48	62	58			0					
9-25-32	6	6.044	1	3:30P	30	.24	.72	.56	.48	62	58			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Sept., Oct., Nov., 1932

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-26-32	1	11.530	1	No chart		.09	No chart			75	55			0					
9-26-32	2	9.386	1	No chart		.09	No chart			75	55			0					
9-26-32	3	10.711	1	No chart		.09	No chart			75	55			0					
9-26-32	5	5.532	1	No chart		.09	No chart			75	55			0					
9-26-32	6	6.044	1	No chart		.09	No chart			75	55			0					
9-29-32	1	11.530	1	10:30A	120	.07	VL	VL	VL	63	54			0					
9-29-32	2	9.386	1	10:30A	120	.07	VL	VL	VL	63	54			0					
9-29-32	3	10.711	1	10:30A	120	.07	VL	VL	VL	63	54			0					
9-29-32	5	5.532	1	10:30A	120	.07	VL	VL	VL	63	54			0					
9-29-32	6	6.044	1	10:30A	120	.07	VL	VL	VL	63	54			0					
9-30-32	1	11.530	1	9:20A	350	.55	.48	.24	.16	57	55			0					
9-30-32	2	9.386	1	9:20A	350	.55	.48	.24	.16	57	55			0					
9-30-32	3	10.711	1	9:20A	350	.55	.48	.24	.16	57	55			0					
9-30-32	5	5.532	1	9:20A	350	.55	.48	.24	.16	57	55			0					
9-30-32	6	6.044	1	9:20A	350	.55	.48	.24	.16	57	55			0					
10-2-32	1	11.530	1	12:30A	30	.03	VL	VL	VL	77	55			0					
10-2-32	2	9.386	1	12:30A	30	.03	VL	VL	VL	77	55			0					
10-2-32	3	10.711	1	12:30A	30	.03	VL	VL	VL	77	55			0					
10-2-32	5	5.532	1	12:30A	30	.03	VL	VL	VL	77	55			0					
10-2-32	6	6.044	1	12:30A	30	.03	VL	VL	VL	77	55			0					
10-20-32	1	11.530	1	1:40 A	70	.09	VL	VL	VL	62	42			0					
10-20-32	2	9.386	1	1:40A	70	.09	VL	VL	VL	62	42			0					
10-20-32	3	10.711	1	1:40A	70	.09	VL	VL	VL	62	42			0					
10-20-32	5	5.532	1	1:40A	70	.09	VL	VL	VL	62	42			0					
10-20-32	6	6.044	1	1:40A	70	.09	VL	VL	VL	62	42			0					
10-21-32	1	11.530	1	2:30A	20	.01	VL	VL		63	61			0					
10-21-32	2	9.386	1	2:30A	20	.01	VL	VL		63	61			0					
10-21-32	3	10.711	1	2:30A	20	.01	VL	VL		63	61			0					
10-21-32	5	5.532	1	2:30A	20	.01	VL	VL		63	61			0					
10-21-32	6	6.044	1	2:30A	20	.01	VL	VL		63	61			0					
10-25-32	1	11.530	1	12:50P	250	.45	.96	.56	.56	59	37			0					
10-25-32	2	9.386	1	12:50P	250	.45	.96	.56	.56	59	37			0					
10-25-32	3	10.711	1	12:50P	250	.45	.96	.56	.56	59	37			0					
10-25-32	5	5.532	1	12:50P	250	.45	.96	.56	.56	59	37			0					
10-25-32	6	6.044	1	12:50P	250	.45	.96	.56	.56	59	37			0					
11-17-32	1	11.530	1	No chart		.09	No chart			53	13			0					
11-17-32	2	9.386	1	No chart		.09	No chart			53	13			0					
11-17-32	3	10.711	1	No chart		.09	No chart			53	13			0					
11-17-32	5	5.532	1	No chart		.09	No chart			53	13			0					
11-17-32	6	6.044	1	No chart		.09	No chart			53	13			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

MONTH ,, Dec., Jan., , 1932-33

PROJECT Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET 52 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (Inches)	SILT LOSS (Tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
12-9-32	1	11.530	1	No chart		.23	No chart			32	11			0					
12-9-32	2	9.386	1	No chart		.23	No chart			32	11			0					
12-9-32	3	10.711	1	No chart		.23	No chart			32	11			0					
12-9-32	5	5.532	1	No chart		.23	No chart			32	11			0					
12-9-32	6	6.044	1	No chart		.23	No chart			32	11			0					
12-15-32	1	11.530	1	No chart		.51	No chart			31	17			0					
12-15-32	2	9.386	1	No chart		.51	No chart			31	17			0					
12-15-32	3	10.711	1	No chart		.51	No chart			31	17			0					
12-15-32	5	5.532	1	No chart		.51	No chart			31	17			0					
12-15-32	6	6.044	1	No chart		.51	No chart			31	17			0					
12-22-32	1	11.530	1	8:30A	930	1.10 2.99	.72	.32	.36	49	30								
12-23-32	1	11.530	1	12:00M	780	1.89	1.20	.62	.42	50	35	No runoff chart		0	available		0		Runoff from station annual report
12-22-32	2	9.836	1	8:30A	930	1.10 2.99	.72	.32	.36	49	30								
12-23-32	2	9.386	1	12:00M	780	1.89	1.20	.62	.42	50	35			.03			2.96		
12-22-32	3	10.711	1	8:30A	930	1.10 2.99	.72	.32	.36	49	30								
12-23-32	3	10.711	1	12:00M	780	1.89	1.20	.62	.42	50	35			.05			2.94		
12-22-32	5	5.532	1	8:30A	930	1.10 2.99	.72	.32	.36	49	30								
12-23-32	5	5.532	1	12:00M	780	1.89	1.20	.62	.42	50	35			.06			2.93		
12-22-32	6	6.044	1	8:30A	930	1.10 2.99	.72	.32	.36	49	30								
12-23-32	6	6.044	1	12:00M	780	1.89	1.20	.62	.42	50	35			.05			2.94		
12-30-32	1	11.530	1	No chart		.02	No chart			42	30			0					
12-30-32	2	9.386	1	No chart		.02	No chart			42	30			0					
12-30-32	3	10.711	1	No chart		.02	No chart			42	30			0					
12-30-32	5	5.532	1	No chart		.02	No chart			42	30			0					
12-30-32	6	6.044	1	No chart		.02	No chart			42	30			0					
1-7-33	1	11.530	1	No chart		.17	No chart			56	38			0					
1-7-33	2	9.386	1	No chart		.17	No chart			56	38			0					
1-7-33	3	10.711	1	No chart		.17	No chart			56	38			0					
1-7-33	5	5.532	1	No chart		.17	No chart			56	38			0					
1-7-33	6	6.044	1	No chart		.17	No chart			56	38			0					
1-8-33	1	11.530	1	No chart		.02				58	29			0					
1-8-33	2	9.386	1	No chart		.02				58	29			0					
1-8-33	3	10.711	1	No chart		.02				58	29			0					
1-8-33	5	5.532	1	No chart		.02				58	29			0					
1-8-33	6	6.044	1	No chart		.02				58	29			0					
2-7-33	1	11.530	1	No chart		.16				65	0			0					
2-7-33	2	9.386	1	No chart		.16				65	0			0					
2-7-33	3	10.711	1	No chart		.16				65	0			0					
2-7-33	5	5.532	1	No chart		.16				65	0			0					
2-7-33	6	6.044	1	No chart		.16				65	0			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

MONTH Feb., April ____, 1933

PROJECT Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET 53 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
2-10-33	1	11.530	1	No chart		.02				34	6								
2-10-33	2	9.386	1	No chart		.02				34	6								
2-10-33	3	10.711	1	No chart		.02				34	6								
2-10-33	5	5.532	1	No chart		.02				34	6								
2-10-33	6	6.044	1	No Chart		.02				34	6								
2-24-33	1	11.530	1	8:10P	180	.42	1.92	.72	.64	79	37			0					
2-25-33	1	11.530	1	2:10A	290	.37	.24	.16	.08	72	41			0					
2-24-33	2	9.386	1	8:10P	180	.42	1.92	.72	.64	79	37			0					
2-25-33	2	9.386	1	2:10A	290	.37	.24	.16	.08	72	41			0					
2-24-33	3	10.711	1	8:10P	180	.42	1.92	.72	.64	79	37			0					
2-25-33	3	10.711	1	2:10A	290	.37	.24	.16	.08	72	41			0					
2-24-33	5	5.532	1	8:10P	180	.42	1.92	.72	.64	79	37			0					
2-25-33	5	5.532	1	2:10A	290	.37	.24	.16	.08	72	41			0					
2-24-33	6	6.044	1	8:10P	180	.42	1.92	.72	.64	79	37			0					
2-25-33	6	6.044	1	2:10A	290	.37	.24	.16	.08	72	41			0					
2-26-33	1	11.530	1	12:20P	20									0					
2-26-33	1	11.530	1	7:00P	300	.28	.48	.26	.16	53	34			0					
2-27-33	1	11.530	1	1:30A	150	.22	.48	.16	.08	44	32			0					
2-2_-33	2	9.386	1	12:20P	20									0					
2-26-33	2	9.386	1	7:00P	300	.28	.48	.26	.16	53	34			0					
2-27-33	2	9.386	1	1:30A	150	.22	.48	.16	.08	44	32			0					
2-26-33	3	10.711	1	12:20P	20									0					
2-26-33	3	10.711	1	7:00P	300	.28	.48	.26	.16	53	34			0					
2-27-33	3	10.711	1	1:30A	150	.22	.48	.16	.08	44	32			0					
2-26-33	5	5.532	1	12:20P	20									0					
2-26-33	5	5.532	1	7:00P	300	.28	.48	.26	.16	53	34			0					
2-27-33	5	5.532	1	1:30A	150	.22	.48	.16	.08	44	32			0					
2-26-33	6	6.044	1	12:20P	20									0					
2-26-33	6	6.044	1	7:00P	300	.28	.48	.26	.16	53	34			0					
2-27-33	6	6.044	1	1:30A	150	.22	.48	.16	.08	44	32			0					
4-22-33	1	11.530	1	No chart		.08				74	48			0					
4-22-33	2	9.386	1	No chart		.08				74	48			0					
4-22-33	3	10.711	1	No chart		.08				74	48			0					
4-22-33	5	5.532	1	No chart		.08				74	48			0					
4-22-33	6	6.044	1	No chart		.08				74	48			0					
4-23-33	1	11.530	1	No chart		.07				73	47			0					
4-23-33	2	9.386	1	No chart		.07				73	47			0					
4-23-33	3	10.711	1	No chart		.07				73	47			0					
4-23-33	5	5.532	1	No chart		.07				73	47			0					
4-23-33	6	6.044	1	No chart		.07				73	47			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH May, July, 1933

SHEET 54 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (Inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu ft sec	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-3-33	1	11.530	1	No chart		.09				81	54			0					
5-3-33	2	9.386	1	No chart		.09				81	54			0					
5-3-33	3	10.711	1	No chart		.09				81	54			0					
5-3-33	5	5.532	1	No chart		.09				81	54			0					
5-3-33	6	6.044	1	No chart		.09				81	54			0					
5-4-33	1	11.530	1	No chart		.05				69	37			0					
5-4-33	2	9.386	1	No chart		.05				69	37			0					
5-4-33	3	10.711	1	No chart		.05				69	37			0					
5-4-33	5	5.532	1	No chart		.05				69	37			0					
5-4-33	6	6.044	1	No chart		.05				69	37			0					
5-17-33	1	11.530	1	5:30P	20	.02	VL	VL		90	60			0					
5-17-33	2	9.386	1	5:30P	20	.02	VL	VL		90	60			0					
5-17-33	3	10.711	1	5:30P	20	.02	VL	VL		90	60			0					
5-17-33	5	5.532	1	5:30P	20	.02	VL	VL		90	60			0					
5-17-33	6	6.044	1	5:30P	20	.02	VL	VL		90	60			0					
5-18-33	1	11.530	1	No chart		.03				97	60			0					
5-18-33	2	9.386	1	No chart		.03				97	60			0					
5-18-33	3	10.711	1	No chart		.03				97	60			0					
5-18-33	5	5.532	1	No chart		.03				97	60			0					
5-18-33	6	6.044	1	No chart		.03				97	60			0					
5-20-33	1	11.530	1	10:40P	30	.43	2.64	.96	.86	94	59			0					
5-20-33	2	9.386	1	10:40P	30	.43	2.64	.96	.86	94	59			0					
5-20-33	3	10.711	1	10:40P	30	.43	2.64	.96	.86	94	59			0					
5-20-33	5	5.532	1	10:40P	30	.43	2.64	.96	.86	94	59			0					
5-20-33	6	6.044	1	10:40P	30	.43	2.64	.96	.86	94	59			0					
5-21-33	1	11.530	1	2:10A	110	.72	2.88	2.16	1.24	89	55			0					
5-21-33	2	9.386	1	2:10A	110	.72	2.88	2.16	1.24	89	55			0					
5-21-33	3	10.711	1	2:10A	110	.72	2.88	2.16	1.24	89	55			0					
5-21-33	5	5.532	1	2:10A	110	.72	2.88	2.16	1.24	89	55			0					
5-21-33	6	6.044	1	2:10A	110	.72	2.88	2.16	1.24	89	55			0					
5-24-33	1	11.530	1	No chart		.40				82	62	Runoff chart			not available				Runoff from station annual report
5-25-33	1	11.530	1	5:50P	280	1.12	5.76	2.88	1.72	75	53			.11			1.41		
5-24-33	2	9.386	1	No chart		.40				82	62								
5-25-33	2	9.386	1	5:50P	280	1.12	5.76	2.88	1.72	75	53			.32			1.20		
5-24-33	3	10.711	1	No chart		.40				82	62								
5-25-33	3	10.711	1	5:50P	280	1.12	5.76	2.88	1.72	75	53			.16			1.36		
5-24-33	5	5.532	1	No chart		.40				82	62								
5-25-33	5	5.532	1	5:50P	280	1.12	5.76	2.88	1.72	75	53			.73			.79		
5-24-33	6	6.044	1	No chart		.40				82	62			0					
5-25-33	6	6.044	1	5:50P	280	1.12	5.76	2.88	1.72	75	53			0			1.40		

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Month July, August . . . . , 1933

Sheet 55 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate				
															Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-4-33	1	11.530	1	No chart		.05				101	70			0					
7-4-33	2	9.386	1	No chart		.05				101	70			0					
7-4-33	3	10.711	1	No chart		.05				101	70			0					
7-4-33	5	5.532	1	No chart		.05				101	70			0					
7-4-33	6	6.044	1	No chart		.05				101	70			0					
7-6-33	1	11.530	1	3:40P	30	.72	5.28	2.08	1.44	96	65			0					
7-6-33	2	9.386	1	3:40P	30	.72	5.28	2.08	1.44	96	65	Runoff chart		.05	not available				Runoff from station annual report
7-6-33	3	10.711	1	3:40P	30	.72	5.28	2.08	1.44	96	65	Runoff chart		.03	not available				
7-6-33	5	5.532	1	3:40P	30	.72	5.28	2.08	1.44	96	65	Runoff chart		.06	not available				
7-6-33	6	6.044	1	3:40P	30	.72	5.28	2.08	1.44	96	65			0					
7-14-33	1	11.530	1	8:20P	160	.19	.48	.24	.10	105	69			0					
7-14-33	2	9.386	1	8:20P	160	.19	.48	.24	.10	105	69			0					
7-14-33	3	10.711	1	8:20P	160	.19	.48	.24	.10	105	69			0					
7-14-33	5	5.532	1	8:20P	160	.19	.48	.24	.10	105	69			0					
7-14-33	6	6.044	1	8:20P	160	.19	.48	.24	.10	105	69			0					
7-18-33	1	11.530	1	4:30P	25	.75	3.72	2.68	1.50	95	72			0			.75		
7-18-33	2	9.386	1	4:30P	25	.75	3.72	2.68	1.50	95	72	4:40P	6:00P	.02	.25	5:00P	.73		
7-18-33	3	10.711	1	4:30P	25	.75	3.72	2.68	1.50	95	72	4:50P	7:00P	.01	.11	5:15P	.74		
7-18-33	5	5.532	1	4:30P	25	.75	3.72	2.68	1.50	95	72	Runoff chart		.06	not available		.69		Runoff from station annual report.
7-18-33	6	6.044	1	4:30P	25	.75	3.72	2.68	1.50	95	72			0			.75		
7-31-33	1	11.530	1	6:40P	210	.80	3.60	1.68	.96	95	63			0					
7-31-33	2	9.386	1	6:40P	210	.80	3.60	1.68	.96	95	63			0					
7-31-33	3	10.711	1	6:40P	210	.80	3.60	1.68	.96	95	63			0					
7-31-33	5	5.532	1	6:40P	210	.80	3.60	1.68	.96	95	63			0					
7-31-33	6	6.044	1	6:40P	210	.80	3.60	1.68	.96	95	63			0					
8-1-33	1	11.530	1	11:40P	20	.26	1.28	.96	.52	93	65			0					
8-2-33	1	11.530	1	12:00M	445	1.19	2.88	1.72	1.04	92	65	4:50A	8:15A	.13	1.46	5:05A	1.32		
8-1-33	2	9.386	1	11:40P	20	.26	1.28	.96	.52	93	65								
8-2-33	2	9.386	1	12:00M	445	1.19	2.88	1.72	1.04	92	65	4:20A	8:30A	.33	2.9	5:15A	1.12		
8-1-33	3	10.711	1	11:40P	20	.26	1.28	.96	.52	93	65								
8-2-33	3	10.711	1	12:00M	445	1.19	2.88	1.72	1.04	92	65	5:20A	7:40A	.04	.39	5:45A	1.41		
8-1-33	5	5.532	1	11:40P	20	.26	1.28	.96	.52	93	65								
8-2-33	5	5.532	1	12:00M	445	1.19	2.88	1.72	1.04	92	65	5:00A	7:25A	.31	2.7	5:55A	1.14		
8-1-33	6	6.044	1	11:40P	20	.26	1.28	.96	.52	93	65								
8-2-33	6	6.044	1	12:00M	445	1.19	2.88	1.72	1.04	92	65	5:10A	6:25A	.02	.27	5:35A	1.43		
8-11-33	1	11.530	1	No chart		.02	No chart			94	69			0					
8-11-33	2	9.386	1	No chart		.02	No chart			94	69			0					
8-11-33	3	10.711	1	No chart		.02	No chart			94	69			0					
8-11-33	5	5.532	1	No chart		.02	No chart			94	69			0					
8-11-33	6	6.044	1	No chart		.02	No chart			94	69			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Aug., Sept., 1933

Project Spur, Texas

Sheet 56 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-15-33	1	11.530	1	8:30A	140	.44	1.44	.56	.46	95	68			0					
8-15-33	2	9.386	1	8:30A	140	.44	1.44	.56	.46	95	68			0					
8-15-33	3	10.711	1	8:30A	140	.44	1.44	.56	.46	95	68			0					
8-15-33	5	5.532	1	8:30A	140	.44	1.44	.56	.46	95	68			0					
8-15-33	6	6.044	1	8:30A	140	.44	1.44	.56	.46	95	68			0					
8-16-33	1	11.530	1	12:30A	30	.03	VL	VL	.06	94	69			0					
8-16-33	2	9.386	1	12:30A	30	.03	VL	VL	.06	94	69			0					
8-16-33	3	10.711	1	12:30A	30	.03	VL	VL	.06	94	69			0					
8-16-33	5	5.532	1	12:30A	30	.03	VL	VL	.06	94	69			0					
8-16-33	6	6.044	1	12:30A	30	.03	VL	VL	.06	94	69			0					
8-24-33	1	11.530	1	12:25A	165	.82	1.20	.88	.80	90	66			0					
8-24-33	2	9.386	1	12:25A	165	.82	1.20	.88	.80	90	66			0					
8-24-33	3	10.711	1	12:25A	165	.82	1.20	.88	.80	90	66			0					
8-24-33	5	5.532	1	12:25A	165	.82	1.20	.88	.80	90	66			0					
8-24-33	6	6.044	1	12:25A	165	.82	1.20	.88	.80	90	66			0					
8-26-33	1	11.530	1	8:30P	90	.36	.96	.56	.56	80	67			0					
8-27-33	1	11.530	1	1:40A	100	.10	.12	VL	VL	87	64			0					
8-26-33	2	9.386	1	8:30P	90	.36	.96	.56	.56	80	67			0					
8-27-33	2	9.386	1	1:40A	100	.10	.12	VL	VL	87	64			0					
8-26-33	3	10.711	1	8:30P	90	.36	.96	.56	.56	80	67			0					
8-27-33	3	10.711	1	1:40A	100	.10	.12	VL	VL	87	64			0					
8-26-33	5	5.532	1	8:30P	90	.36	.96	.56	.56	80	67			0					
8-27-33	5	5.532	1	1:40A	100	.10	.12	VL	VL	87	64			0					
8-26-33	6	6.044	1	8:30P	90	.36	.96	.56	.56	80	67			0					
8-27-33	6	6.044	1	1:40A	100	.10	.12	VL	VL	87	64			0					
8-28-33	1	11.530	1	1:20A	50	.10	.24	.16	.08	89	66			0					
8-28-33	2	9.386	1	1:20A	50	.10	.24	.16	.08	89	66			0					
8-28-33	3	10.711	1	1:20A	50	.10	.24	.16	.08	89	66			0					
8-28-33	5	5.532	1	1:20A	50	.10	.24	.16	.08	89	66			0					
8-28-33	6	6.044	1	1:20A	50	.10	.24	.16	.08	89	66			0					
9-2-33	1	11.530	1	No chart		.11	No chart			86	71			0					
9-2-33	2	9.386	1	No chart		.11	No chart			86	71			0					
9-2-33	3	10.711	1	No chart		.11	No chart			86	71			0					
9-2-33	5	5.532	1	No chart		.11	No chart			86	71			0					
9-2-33	6	6.044	1	No chart		.11	No chart			86	71			0					
9-10-33	1	11.530	1	8:35P	45	.26	.96	.72	.32	95	63			0					
9-11-33	1	11.530	1	12:45A	185	.43	1.92	1.44	.76	91	66			0					
9-10-33	2	9.386	1	8:35P	45	.26	.96	.72	.32	95	63			0					
9-11-33	2	9.386	1	12:45A	185	.43	1.92	1.44	.76	91	66			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Sept., Oct., Nov., 19 33

SHEET 57 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (Inches)	SILT LOSS (tons per acre	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-10-33	5	10,711	1	8:35P	45	.26	.96	.72	.32	95	63			0					
9-11-33	5	10,711	1	12:45A	185	.43	1.92	1.44	.76	91	66			0					
9-10-33	5	5,532	1	8:35P	45	.26	.96	.72	.32	95	63			0					
9-11-33	5	5,532	1	12:45A	185	.43	1.92	1.44	.76	91	66			0					
9-10-33	6	6,044	1	8:35P	45	.26	.96	.72	.32	95	63			0					
9-11-33	6	6,044	1	12:45A	186	.43	1.92	1.44	.76	91	66			0					
9-13-33	1	11,530	1	2:00A	120	.63	3.36	1.36	.64	81	66			0					
9-14-33	1	11,530	1	7:20A	460	1.74	1.68	.88	.48	75	64	Runoff chart		.06	not available		2.32		Runoff from station annual report.
9-13-33	2	9,386	1	2:00A	120	.63	3.36	1.36	.64	81	66								
9-14-33	2	9,386	1	7:20A	460	1.74	1.68	.88	.48	75	64	Runoff chart		.12	not available		2.25		
9-13-33	3	10,711	1	2:00A	120	.63	3.36	1.36	.64	81	66								
9-14-33	3	10,711	1	7:20A	460	1.74	1.68	.88	.48	75	64			0					
9-13-33	5	5,532	1	2:00A	120	.63	3.36	1.36	.64	81	66								
9-14-33	5	5,532	1	7:20A	460	1.74	1.68	.88	.48	75	64	Runoff chart		.24	not available		2.13		
9-13-33	6	6,044	1	2:00A	120	.63	3.36	1.36	.64	81	66								
9-14-33	6	6,044	1	7:20A	460	1.74	1.68	.88	.48	75	64			0					
10-10-33	1	11,530	1	5:00P	90	.11	.12	VL	VL	81	45			0					
10-10-33	2	9,386	1	5:00P	90	.11	.12	VL	VL	81	45			0					
10-10-33	3	10,711	1	5:00P	90	.11	.12	VL	VL	81	45			0					
10-10-33	5	5,532	1	5:00P	90	.11	.12	VL	VL	81	45			0					
10-10-33	6	6,044	1	5:00P	90	.11	.12	VL	VL	81	45			0					
10-11-33	1	11,530	1	No chart		.02	No chart			86	50			0					
10-11-33	2	9,386	1	No chart		.02	No chart			86	50			0					
10-11-33	3	10,711	1	No chart		.02	No chart			86	50			0					
10-11-33	5	5,532	1	No chart		.02	No chart			86	50			0					
10-11-33	6	6,044	1	No chart		.02	No chart			86	50			0					
10-12-33	1	11,530	1	No chart		.02	No chart			81	57								
10-12-33	2	9,386	1	No chart		.02	No chart			81	57								
10-12-33	3	10,711	1	No chart		.02	No chart			81	57								
10-12-33	5	5,532	1	No chart		.02	No chart			81	57								
10-12-33	6	6,044	1	No chart		.02	No chart			81	57								
10-14-33	1	11,530	1	12:00M	80	.20	.24	.16	.16	79	56			0					
10-14-33	2	9,386	1	12:00M	80	.20	.24	.16	.16	79	56			0					
10-14-33	3	10,711	1	12:00M	80	.20	.24	.16	.16	79	56			0					
10-14-33	5	5,532	1	12:00M	80	.20	.24	.16	.16	79	56			0					
10-14-33	6	6,044	1	12:00M	80	.20	.24	.16	.16	79	56			0					
11-2-33	1	11,530	1	8:20P	150	.70	.72	.48	.40	74	47			0					
11-2-33	2	9,386	1	8:20P	150	.70	.72	.48	.40	74	47			0					
11-2-33	3	10,711	1	8:20P	150	.70	.72	.48	.40	74	47			0					
11-2-33	5	5,532	1	8:20P	150	.70	.72	.48	.40	74	47			0					
11-2-33	6	6,044	1	8:20P	150	.70	.72	.48	.40	74	47			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Nov., Dec., Jan., Feb. 1933-34

Project Spur, Texas

Sheet 58 of 99 sheets

U. S. GOVERNMENT PRINTING OFFICE 9—15308

Date	Watershed		Rainfall							Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
11-3-33	1	11.530	1	6:20A	60	.03	VL	VL	VL	60	40			0					
11-3-33	2	9.386	1	6:20A	60	.03	VL	VL	VL	60	40			0					
11-3-33	3	10.711	1	6:20A	60	.03	VL	VL	VL	60	40			0					
11-3-33	5	5.532	1	6:20A	60	.03	VL	VL	VL	60	40			0					
11-3-33	6	6.044	1	6:20A	60	.03	VL	VL	VL	60	40			0					
11-20-33	1	11.530	1	8:50P	120	.39	.96	.48	.28	73	42			0					
11-20-33	2	9.286	1	8:50P	120	.39	.96	.48	.28	73	42			0					
11-20-33	3	10.711	1	8:50P	120	.39	.96	.48	.28	73	42			0					
11-20-33	5	5.532	1	8:50P	120	.39	.96	.48	.28	73	42			0					
11-20-33	6	6.044	1	8:50P	120	.39	.96	.48	.28	73	42			0					
12-29-33	1	11.530	1	3:20P	160	.29	.48	.24	.20	40	30			0					
12-29-33	2	9.386	1	3:20P	160	.29	.48	.24	.20	40	30			0					
12-29-33	3	10.711	1	3:20P	160	.29	.48	.24	.20	40	30			0					
12-29-33	5	5.532	1	3:20P	160	.29	.48	.24	.20	40	30			0					
12-29-33	6	6.044	1	3:20P	160	.29	.48	.24	.20	40	30			0					
12-30-33	1	11.530	1	No chart		.16	No chart			53	33			0					
12-30-33	2	9.386	1	No chart		.16	No chart			53	33			0					
12-30-33	3	10.711	1	No chart		.16	No chart			53	33			0					
12-30-33	5	5.532	1	No chart		.16	No chart			53	33			0					
12-30-33	6	6.044	1	No chart		.16	No chart			53	33			0					
1-3-34	1	11.530	1	No chart		.06	No chart			42	28			0					
1-3-34	2	9.386	1	No chart		.06	No chart			42	28			0					
1-3-34	3	10.711	1	No chart		.06	No chart			42	28			0					
1-3-34	5	5.532	1	No chart		.06	No chart			42	28			0					
1-3-34	6	6.044	1	No chart		.06	No chart			42	28			0					
1-6-34	1	11.530	1	No chart		.06	No chart			49	31			0					
1-6-34	2	9.386	1	No chart		.06	No chart			49	31			0					
1-6-34	3	10.711	1	No chart		.06	No chart			49	31			0					
1-6-34	5	5.532	1	No chart		.06	No chart			49	31			0					
1-6-34	6	6.044	1	No chart		.06	No chart			49	31			0					
2-10-34	1	11.530	1	No chart		.06	No chart			46	38			0					
2-10-34	2	9.386	1	No chart		.06	No chart			46	38			0					
2-10-34	3	10.711	1	No chart		.06	No chart			46	38			0					
2-10-34	5	5.532	1	No chart		.06	No chart			46	38			0					
2-10-34	6	6.044	1	No chart		.06	No chart			46	38			0					
2-11-34	1	11.530	1	No chart		.15	No chart			53	31			0					
2-11-34	2	9.386	1	No chart		.15	No chart			53	31			0					
2-11-34	3	10.711	1	No chart		.15	No chart			53	31			0					
2-11-34	5	5.532	1	No chart		.15	No chart			53	31			0					
2-11-34	6	6.044	1	No chart		.15	No chart			53	31			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Mar. April, 1934

SHEET 59 OF 99 SHEETS

U. S. GOVERNMENT PRINTING OFFICE 8—12368

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (Inches)	SILT LOSS (Tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-1-34	1	11.530	1	No	chart	1.11	No	chart		41	30			0					
3-1-34	2	9.386	1	No	chart	1.11	No	chart		41	30			0					
3-1-34	3	10.711	1	No	chart	1.11	No	chart		41	30			0					
3-1-34	5	5.532	1	No	chart	1.11	No	chart		41	30			0					
3-1-34	6	6.044	1	No	chart	1.11	No	chart		41	30			0					
3-3-34	1	11.530	1	No	chart	.05	No	chart		64	34			0					
3-3-34	2	9.386	1	No	chart	.05	No	chart		64	34			0					
3-3-34	3	10.711	1	No	chart	.05	No	chart		64	34			0					
3-3-34	5	5.532	1	No	chart	.05	No	chart		64	34			0					
3-3-34	6	6.044	1	No	chart	.05	No	chart		64	34			0					
3-25-34	1	11.530	1	3:40A	200	.42	.48	.24	.12	38	26			0					
3-25-34	1	11.530	1	8:10A	340	.51	.48	.16	.17	38	26			0					
3-25-34	2	9.386	1	3:10A	200	.42	.48	.24	.12	38	26			0					
3-25-34	2	9.386	1	8:10A	340	.51	.48	.16	.16	38	26			0					
3-25-34	3	10.711	1	3:40A	200	.42	.48	.24	.12	38	26			0					
3-25-34	3	10.711	1	8:10A	340	.51	.48	.16	.16	38	26			0					
3-25-34	5	5.532	1	3:40A	200	.42	.48	.24	.12	38	26			0					
3-25-34	5	5.532	1	8:10A	340	.51	.48	.16	.16	38	26			0					
3-25-34	6	6.044	1	3:40A	200	.42	.48	.24	.12	38	26			0					
3-25-34	6	6.044	1	8:10A	340	.51	.48	.16	.16	38	26			0					
3-26-34	1	11.530	1	4:40A	90	.11	.24	.16	.12	43	28			0					
3-26-34	2	9.386	1	4:40A	90	.11	.24	.16	.12	43	28			0					
3-26-34	3	10.711	1	4:40A	90	.11	.24	.16	.12	43	28			0					
3-26-34	5	5.532	1	4:40A	90	.11	.24	.16	.12	43	28			0					
3-26-34	6	6.044	1	4:40A	90	.11	.24	.16	.12	43	28			0					
4-15-34	1	11.530	1	No	chart	.25	No	chart		86	48			0					
4-15-34	2	9.386	1	No	chart	.25	No	chart		86	48			0					
4-15-34	3	10.711	1	No	chart	.25	No	chart		86	48			0					
4-15-34	5	5.532	1	No	chart	.25	No	chart		86	48			0					
4-15-34	6	6.044	1	No	chart	.25	No	chart		86	48			0					
4-16-34	1	11.530	1	No	chart	.16	No	chart		65	47			0					
4-16-34	2	9.386	1	No	chart	.16	No	chart		65	47			0					
4-16-34	3	10.711	1	No	chart	.16	No	chart		65	47			0					
4-16-34	5	5.532	1	No	chart	.16	No	chart		65	47			0					
4-16-34	6	6.044	1	No	chart	.16	No	chart		65	47			0					
4-17-34	1	11.530	1	No	chart	.03	No	chart		76	45			0					
4-17-34	2	9.386	1	No	chart	.03	No	chart		76	45			0					
4-17-34	3	10.711	1	No	chart	.03	No	chart		76	45			0					
4-17-34	5	5.532	1	No	chart	.03	No	chart		76	45			0					
4-17-34	6	6.044	1	No	chart	.03	No	chart		76	45			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month April, May, 1934

Sheet 60 of 99 sheets

U. S. GOVERNMENT PRINTING OFFICE 8—13968

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
4-18-34	1	11.530	1	No chart		.10	No chart			69	45			0					
4-18-34	2	9.386	1	No chart		.10	No chart			69	45			0					
4-18-34	3	10.711	1	No chart		.10	No chart			69	45			0					
4-18-34	5	5.532	1	No chart		.10	No chart			69	45			0					
4-18-34	6	6.044	1	No chart		.10	No chart			69	45			0					
4-23-34	1	11.530	1	No chart		.01	No chart			93	49			0					
4-23-34	2	9.386	1	No chart		.01	No chart			93	49			0					
4-23-34	3	10.711	1	No chart		.01	No chart			93	49			0					
4-23-34	5	5.532	1	No chart		.01	No chart			93	49			0					
4-23-34	6	6.044	1	No chart		.01	No chart			93	49			0					
4-26-34	1	11.530	1	No chart		.22	No chart			92	53			0					
4-26-34	2	9.386	1	No chart		.22	No chart			92	53			0					
4-26-34	3	10.711	1	No chart		.22	No chart			92	53			0					
4-26-34	5	5.532	1	No chart		.22	No chart			92	53			0					
4-26-34	6	6.044	1	No chart		.22	No chart			92	53			0					
4-27-34	1	11.530	1	No chart		.39	No chart			83	48			0					
4-27-34	2	9.386	1	No chart		.39	No chart			83	48			0					
4-27-34	3	10.711	1	No chart		.39	No chart			83	48			0					
4-27-34	5	5.532	1	No chart		.39	No chart			83	48			0					
4-27-34	6	6.044	1	No chart		.39	No chart			83	48			0					
5-3-34	1	11.530	1	1:45A	90	1.10	2.64	1.04	.56	81	55			0					
5-3-34	2	9.386	1	1:45A	90	1.10	2.64	1.04	.56	81	55			0					
5-3-34	3	10.711	1	1:45A	90	1.10	2.64	1.04	.56	81	55			0					
5-3-34	5	5.532	1	1:45A	90	1.10	2.64	1.04	.56	81	55			0					
5-3-34	6	6.044	1	1:45A	90	1.10	2.64	1.04	.56	81	55			0					
5-14-34	1	11.530	1	No chart		.13	No chart			75	48			0					
5-14-34	2	9.386	1	No chart		.13	No chart			75	48			0					
5-14-34	3	10.711	1	No chart		.13	No chart			75	48			0					
5-14-34	5	5.532	1	No chart		.13	No chart			75	48			0					
5-14-34	6	6.044	1	No chart		.13	No chart			75	48			0					
5-22-34	1	11.530	1	2:00A	40	.21	.96	.64	.36	93	62			0					
5-22-34	2	9.386	1	2:00A	40	.21	.96	.64	.36	93	62			0					
5-22-34	3	10.711	1	2:00A	40	.21	.96	.64	.36	93	62			0					
5-22-34	5	5.532	1	2:00A	40	.21	.96	.64	.36	93	62			0					
5-22-34	6	6.044	1	2:00A	40	.21	.96	.64	.36	93	62			0					
5-23-34	1	11.530	1	2:20A	50	.30	.48	.40	.32	84	60			0					
5-23-34	2	9.386	1	2:20A	50	.30	.48	.40	.32	84	60			0					
5-23-34	3	10.711	1	2:20A	50	.30	.68	.40	.32	84	60			0					
5-23-34	5	5.532	1	2:20A	50	.30	.48	.40	.32	84	60			0					
5-23-34	6	6.044	1	2:20A	50	.30	.48	.40	.32	84	60			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH May, June, July, Aug. 1934

SHEET 61 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft./sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-24-34	1	11.530	1	3:55P	15	.58	5.28	2.32		82	62			0			.58		
5-24-34	2	9.386	1	3:55P	15	.58	5.28	2.32		82	62	4:40P	11:20P	.13	3:40	4:55P	.45		Total runoff from station annual report
5-24-34	3	10.711	1	3:55P	15	.58	5.28	2.32		82	62			0			.58		
5-24-34	5	5.532	1	3:55P	15	.58	5.28	2.32		82	62	5:00P	10:15P	.09	3:25	5:05P	.49		Total runoff from station annual report
5-24-34	6	6.044	1	3:55P	15	.58	5.28	2.32		82	62			0					
5-25-34	1	11.530	1	2:30A	30	.14	.48	.40	.28	79	58			0					
5-25-34	2	9.386	1	2:30A	30	.14	.48	.40	.28	79	58			0					
5-25-34	3	10.711	1	2:30A	30	.14	.48	.40	.28	79	58			0					
5-25-34	5	5.532	1	2:30A	30	.14	.48	.40	.28	79	58			0					
5-25-34	6	6.044	1	2:30A	30	.14	.48	.40	.28	79	58			0					
6-16-34	1	11.530	1	No chart		.04	No chart			102	66			0					
6-16-34	2	9.386	1	No chart		.04	No chart			102	66			0					
6-16-34	3	10.711	1	No chart		.04	No chart			102	66			0					
6-16-34	5	5.532	1	No chart		.04	No chart			102	66			0					
6-16-34	6	6.044	1	No chart		.04	No chart			102	66			0					
6-17-34	1	11.530	1	No chart		.03	No chart			95	59			0					
6-17-34	2	9.386	1	No chart		.03	No chart			95	59			0					
6-17-34	3	10.711	1	No chart		.03	No chart			95	59			0					
6-17-34	5	5.532	1	No chart		.03	No chart			95	59			0					
6-17-34	6	6.044	1	No chart		.03	No chart			95	59			0					
7-2-34	1	11.530	1	No chart		.04	No chart			97	72			0					
7-2-34	2	9.386	1	No chart		.04	No chart			97	72			0					
7-2-34	3	10.711	1	No chart		.04	No chart			97	72			0					
7-2-34	5	5.532	1	No chart		.04	No chart			97	72			0					
7-2-34	6	6.044	1	No chart		.04	No chart			97	72			0					
7-27-34	1	11.530	1	5:00P	30	.06	VL	VL	.12	102	69			0					
7-27-34	2	9.386	1	5:00P	30	.06	VL	VL	.12	102	69			0					
7-27-34	3	10.711	1	5:00P	30	.06	VL	VL	.12	102	69			0					
7-27-34	5	5.532	1	5:00P	30	.06	VL	VL	.12	102	69			0					
7-27-34	6	6.044	1	5:00P	30	.06	VL	VL	.12	102	69			0					
7-28-34	1	11.530	1	No chart		.01	No chart			97	66			0					
7-28-34	2	9.386	1	No chart		.01	No chart			97	66			0					
7-28-34	3	10.711	1	No chart		.01	No chart			97	66			0					
7-28-34	5	5.532	1	No chart		.01	No chart			97	66			0					
7-28-34	6	6.044	1	No chart		.01	No chart			97	66			0					
8-23-34	1	11.530	1	No chart		.03	No chart			97	70			0					
8-23-34	2	9.386	1	No chart		.03	No chart			97	70			0					
8-23-34	3	10.711	1	No chart		.03	No chart			97	70			0					
8-23-34	5	5.532	1	No chart		.03	No chart			97	70			0					
8-23-34	6	6.044	1	No chart		.03	No chart			97	70			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month August, September, 1934

Sheet 62 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Runoff					Rainfall Minus Runoff (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	Maximum Intensity: 5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate: Cu. ft. per sec.	Maximum Rate: Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-25-34	1	11.530	1	2:40A	60	.59	2.40	1.12	.84	82	61			0					
8-25-34	2	9.386	1	2:40A	60	.59	2.40	1.12	.84	82	61			0					
8-25-34	3	10.711	1	2:40A	60	.59	2.40	1.12	.84	82	61			0					
8-25-34	5	5.532	1	2:40A	60	.59	2.40	1.12	.84	82	61			0					
8-25-34	6	6.044	1	2:40A	60	.59	2.40	1.12	.84	82	61			0					
8-28-34	1	11.530	1	10:00P	80	.36	.48	.32	.18	87	67			0					
8-28-34	2	9.386	1	10:00P	80	.36	.48	.32	.18	87	67			0					
8-28-34	3	10.711	1	10:00P	80	.36	.48	.32	.18	87	67			0					
8-28-34	5	5.532	1	10:00P	80	.36	.48	.32	.18	87	67			0					
8-28-34	6	6.044	1	10:00P	80	.36	.48	.32	.18	87	67			0					
8-31-34	1	11.530	1	2:50P	50	.20	1.20	.48	.32	90	68			0					
8-31-34	2	9.386	1	2:50P	50	.20	1.20	.48	.32	90	68			0					
8-31-34	3	10.711	1	2:50P	50	.20	1.20	.48	.32	90	68			0					
8-31-34	5	5.532	1	2:50P	50	.20	1.20	.48	.32	90	68			0					
8-31-34	6	6.044	1	2:50P	50	.20	1.20	.48	.32	90	68			0					
9-3-34	1	11.530	1	No chart		.08	No chart			85	57			0					
9-3-34	2	9.386	1	No chart		.08	No chart			85	57			0					
9-3-34	3	10.711	1	No chart		.08	No chart			85	57			0					
9-3-34	5	5.532	1	No chart		.08	No chart			85	57			0					
9-3-34	6	6.044	1	No chart		.08	No chart			85	57			0					
9-15-34	1	11.530	1	2:15P	145	1.91	8.52	4.96	2.80	86	56	2:35A	7:30A	.24	2.78	2:45A	1.67		
9-15-34	2	9.386	1	2:15P	145	1.91	8.52	4.96	2.80	86	56	2:45A	7:35A	.50	4.60	3:00A	1.31		
9-15-34	3	10.711	1	2:15P	145	1.91	8.52	4.96	2.80	86	56	Runoff chart		.26	not available		1.65	Total runoff from station annual report.	
9-15-34	5	5.532	1	2:15P	145	1.91	8.52	4.96	2.80	86	56	2:50A	7:05A	.97	7.98	3:00A	.94		
9-15-34	6	6.044	1	2:15P	145	1.91	8.52	4.96	2.80	86	56			0			1.91		
9-24-34	1	11.530	1	8:10A	200	.53	2.64	.96	.68	85	67			0					
9-24-34	2	9.386	1	8:10A	200	.53	2.64	.96	.68	85	67			0					
9-24-34	3	10.711	1	8:10A	200	.53	2.64	.96	.68	85	67			0					
9-24-34	5	5.532	1	8:10A	200	.53	2.64	.96	.68	85	67			0					
9-24-34	6	6.044	1	8:10A	200	.53	2.64	.96	.68	85	67			0					
10-13-34	1	11.530	1	9:10P	90	.19	1.20	.56	.28	85	51			0					
10-13-34	2	9.386	1	9:10P	90	.19	1.20	.56	.28	85	51			0					
10-13-34	3	10.711	1	9:10P	90	.19	1.20	.56	.28	85	51			0					
10-13-34	5	5.532	1	9:10P	90	.19	1.20	.56	.28	85	51			0					
10-13-34	6	6.044	1	9:10P	90	.19	1.20	.56	.28	85	51			0					
10-17-34	1	11.530	1	No chart		.04	No chart			84	64			0					
10-17-34	2	9.386	1	No chart		.04	No chart			84	64			0					
10-17-34	3	10.711	1	No chart		.04	No chart			84	64			0					
10-17-34	5	5.532	1	No chart		.04	No chart			84	64			0					
10-17-34	6	6.044	1	No chart		.04	No chart			84	64			0					

Form S. C. S.-343

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Oct., November, 19 34

Project Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 63 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Runoff					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft per sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-22-34	1	11.530	1	6:10A	260	.64	2.88	1.04	.80	79	55			0					
10-22-34	2	9.386	1	6:10A	260	.64	2.88	1.04	.80	79	55			0					
10-22-34	3	10.711	1	6:10A	260	.64	2.88	1.04	.80	79	55			0					
10-22-34	5	5.532	1	6:10A	260	.64	2.88	1.04	.80	79	55			0					
10-22-34	6	6.044	1	6:10A	260	.64	2.88	1.04	.80	79	55			0					
11-13-34	1	11.530	1	No chart		.14	No chart			68	39			0					
11-13-34	2	9.386	1	No chart		.14	No chart			68	39			0					
11-13-34	3	10.711	1	No chart		.14	No chart			68	39			0					
11-13-34	5	5.532	1	No chart		.14	No chart			68	39			0					
11-13-34	6	6.044	1	No chart		.14	No chart			68	39			0					
11-14-34	1	11.530	1	4:10P	400	.30	.48	.24	.16	65	49			0					
11-14-34	2	9.386	1	4:10P	400	.30	.48	.24	.16	65	49			0					
11-14-34	3	10.711	1	4:10P	400	.30	.48	.24	.16	65	49			0					
11-14-34	5	5.532	1	4:10P	400	.30	.48	.24	.16	65	49			0					
11-14-34	6	6.044	1	4:10P	400	.30	.48	.24	.16	65	49			0					
11-15-34	1	11.530	1	No chart		.04	No chart			68	48			0					
11-15-34	2	9.386	1	No chart		.04	No chart			68	48			0					
11-15-34	3	10.711	1	No chart		.04	No chart			68	48			0					
11-15-34	5	5.532	1	No chart		.04	No chart			68	48			0					
11-15-34	6	6.044	1	No chart		.04	No chart			68	48			0					
11-17-34	1	11.530	1	No chart		.01	No chart			76	52			0					
11-17-34	2	9.386	1	No chart		.01	No chart			76	52			0					
11-17-34	3	10.711	1	No chart		.01	No chart			76	52			0					
11-17-34	5	5.532	1	No chart		.01	No chart			76	52			0					
11-17-34	6	6.044	1	No chart		.01	No chart			76	52			0					
11-19-34	1	11.530	1	8:30A	90	.82	3.36	1.52	1.12	75	53			0					
11-19-34	2	9.386	1	8:30A	90	.82	3.36	1.52	1.12	75	53			0					
11-19-34	3	10.711	1	8:30A	90	.82	3.36	1.52	1.12	75	53			0					
11-19-34	5	5.532	1	8:30A	90	.82	3.36	1.52	1.12	75	53			0					
11-19-34	6	6.044	1	8:30A	90	.82	3.36	1.52	1.12	75	53			0					
11-21-34	1	11.530	1	9:30A	200	.41	.24	.18	.08	55	42			0					
11-21-34	2	9.386	1	9:30A	200	.41	.24	.18	.08	55	42			0					
11-21-34	3	10.711	1	9:30A	200	.41	.24	.18	.08	55	42			0					
11-21-34	5	5.532	1	9:30A	200	.41	.24	.18	.08	55	42			0					
11-21-34	6	6.044	1	9:30A	200	.41	.24	.18	.08	55	42			0					
11-23-34	1	11.530	1	8:40P	.30	.21	.24	.16	.06	43	32			0					
11-23-34	2	9.386	1	8:40P	.30	.21	.24	.16	.06	43	32			0					
11-23-34	3	10.711	1	8:40P	.30	.21	.24	.16	.06	43	32			0					
11-23-34	5	5.532	1	8:40P	.30	.21	.24	.16	.06	43	32			0					
11-23-34	6	6.044	1	8:40P	.30	.21	.24	.16	.06	43	32			0					

Form S. C. S.-348

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Dec., Jan. Feb., , 1934-35

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas.

Sheet 64 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	Maximum Intensity: 5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate: Cu ft per sec	Maximum Rate: Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
12-13-34	1	11.530	1	No chart		.01	No chart			62	31			0					
12-13-34	2	9.386	1	No chart		.01	No chart			62	31			0					
12-13-34	3	10.711	1	No chart		.01	No chart			62	31			0					
12-13-34	5	5.532	1	No chart		.01	No chart			62	31			0					
12-13-34	6	6.044	1	No chart		.01	No chart			62	31			0					
1935																			
1-18-35	1	11.530	1	No chart		.01	No chart			59	43			0					
1-18-35	2	9.386	1	No chart		.01	No chart			59	43			0					
1-18-35	3	10.711	1	No chart		.01	No chart			59	43			0					
1-18-35	5	5.532	1	No chart		.01	No chart			59	43			0					
1-18-35	6	6.044	1	No chart		.01	No chart			59	43			0					
2-6-35	1	11.530	1	No chart		.01	No chart			65	31			0					
2-6-35	2	9.386	1	No chart		.01	No chart			65	31			0					
2-6-35	3	10.711	1	No chart		.01	No chart			65	31			0					
2-6-35	5	5.532	1	No chart		.01	No chart			65	31			0					
2-6-35	6	6.044	1	No chart		.01	No chart			65	31			0					
2-7-35	1	11.530	1	No chart		.10	No chart			68	33			0					
2-7-35	2	9.386	1	No chart		.10	No chart			68	33			0					
2-7-35	3	10.711	1	No chart		.10	No chart			68	33			0					
2-7-35	5	5.532	1	No chart		.10	No chart			68	33			0					
2-7-35	6	6.044	1	No chart		.10	No chart			68	33			0					
2-9-35	1	11.530	1	No chart		.01	No chart			49	37			0					
2-9-35	2	9.386	1	No chart		.01	No chart			49	37			0					
2-9-35	3	10.711	1	No chart		.01	No chart			49	37			0					
2-9-35	5	5.532	1	No chart		.01	No chart			49	37			0					
2-9-35	6	6.044	1	No chart		.01	No chart			49	37			0					
2-11-35	1	11.530	1	No chart		.08	No chart												
2-11-35	2	9.386	1	No chart		.08	No chart												
2-11-35	3	10.711	1	No chart		.08	No chart												
2-11-35	5	5.532	1	No chart		.08	No chart												
2-11-35	6	6.044	1	No chart		.08	No chart												
2/12/35	1	11.530	1	12:30P	330	.35	.48	.24	.20	47	29			0					
2-12-35	2	9.386	1	12:30P	330	.35	.48	.24	.20	47	29			0					
2-12-35	3	10.711	1	12:30P	330	.35	.48	.24	.20	47	29			0					
2-12-35	5	5.532	1	12:30P	330	.35	.48	.24	.20	47	29			0					
2-12-35	6	6.044	1	12:30P	330	.35	.48	.24	.20	47	29			0					
2-13-35	1	11.530	1	No chart		.05	No chart			59	33			0					
2-13-35	2	9.386	1	No chart		.05	No chart			59	33			0					
2-13-35	3	10.711	1	No chart		.05	No chart			59	33			0					

Form S. C.S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Feb., Mar., April, May. 1935

Project Spur, Texas.

Sheet 65 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft./sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	19
2-13-35	5	5.532	1	No chart		.05	No chart			59	33			0					
2-13-35	6	6.044	1	No chart		.05	No chart			59	33			0					
2-15-35	1	11.530	1	No chart		.01	No chart			63	41			0					
2-15-35	2	9.386	1	No chart		.01	No chart			63	41			0					
2-15-35	3	10.711	1	No chart		.01	No chart			63	41			0					
2-15-35	5	5.532	1	No chart		.01	No chart			63	41			0					
2-15-35	6	6.044	1	No chart		.01	No chart			63	41			0					
3-11-35	1	11.530	1	10:00A	160	.89	4.80	2.00	1.12	66	38			0					
3-11-35	2	9.386	1	10:00A	160	.89	4.80	2.00	1.12	66	38	Runoff chart		.16	not available		.73		Total runoff from station annual report.
3-11-35	3	10.711	1	10:00A	160	.89	4.80	2.00	1.12	66	38			0					
3-11-35	5	5.532	1	10:00A	160	.89	4.80	2.00	1.12	66	38	Runoff chart		.16	not available		.73		Total runoff from station annual report.
3-11-35	6	6.044	1	10:00A	160	.89	4.80	2.00	1.12	66	38			0					
3-21-35	1	11.530	1	No chart		.09	No chart			73	52			0					
3-21-35	2	9.386	1	No chart		.09	No chart			73	52			0					
3-21-35	3	10.711	1	No chart		.09	No chart			73	52			0					
3-21-35	5	5.532	1	No chart		.09	No chart			73	52			0					
3-21-35	6	6.044	1	No chart		.09	No chart			73	52			0					
4-18-35	1	11.530	1	No chart		.03	No chart			86	55			0					
4-18-35	2	9.386	1	No chart		.03	No chart			86	55			0					
4-18-35	3	10.711	1	No chart		.03	No chart			86	55			0					
4-18-35	5	5.532	1	No chart		.03	No chart			86	55			0					
4-18-35	6	6.044	1	No chart		.03	No chart			86	55			0					
4-20-35	1	11.530	1	No chart		.02	No chart			72	48			0					
4-20-35	2	9.386	1	No chart		.02	No chart			72	48			0					
4-20-35	3	10.711	1	No chart		.02	No chart			72	48			0					
4-20-35	5	5.532	1	No chart		.02	No chart			72	48			0					
4-20-35	6	6.044	1	No chart		.02	No chart			72	48			0					
4-23-35	1	11.530	1	7:30P	110	.66	.96	.64	.56	88	52			0					
4-23-35	2	9.386	1	7:30P	110	.66	.96	.64	.56	88	52	7:40P	3:25A	.04	1.65	9:50P	.62		Total runoff from station annual report
4-23-35	3	10.711	1	7:30P	110	.66	.96	.64	.56	88	52			0					
4-23-35	5	5.532	1	7:30P	110	.66	.96	.64	.56	88	52	10:00P	6:30A	.07	2.20	11:05P	.59		Total runoff from station annual report.
4-23-35	6	6.044	1	7:30P	110	.66	.96	.64	.56	88	52			0					
5-3-35	1	11.530	1	No chart		.01	No chart			72	50			0					
5-3-35	2	9.386	1	No chart		.01	No chart			72	50			0					
5-3-35	3	10.711	1	No chart		.01	No chart			72	50			0					
5-3-35	5	5.532	1	No chart		.01	No chart			72	50			0					
5-3-35	6	6.044	1	No chart		.01	No chart			72	50			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT. Spur, Texas

MONTH May, 1935

SHEET 66 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SOIL LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-4-35	1	11.530	1	No chart		.79	No chart			50	39			0					
5-4-35	2	9.386	1	No chart		.79	No chart			50	39	10:15A	3:25P	.02	.75	1:55P	.77		Total runoff from station annual report
5-4-35	3	10.711	1	No chart		.79	No chart			50	39			0					
5-4-35	5	5.532	1	No chart		.79	No chart			50	39	8:20A	3:30P	.07	2.25	8:35A	.72		Total runoff from station annual report.
5-4-35	6	6.044	1	No chart		.79	No chart			50	39			0					
5-5-35	1	11.530	1	No chart		.01	No chart			57	39			0					
5-5-35	2	9.386	1	No chart		.01	No chart			57	39			0					
5-5-35	3	10.711	1	No chart		.01	No chart			57	39			0					
5-5-35	5	5.532	1	No chart		.01	No chart			57	39			0					
5-5-35	6	6.044	1	No chart		.01	No chart			57	39			0					
5-13-35	1	11.530	1	8:30A	40	.09	.36	.22	.14	85	69			0					
5-13-35	2	9.386	1	8:30A	40	.09	.36	.22	.14	85	69			0					
5-13-35	3	10.711	1	8:30A	40	.09	.36	.22	.14	85	69			0					
5-13-35	5	5.532	1	8:30A	40	.09	.36	.22	.14	85	69			0					
5-13-35	6	6.044	1	8:30A	40	.09	.36	.22	.14	85	69			0					
5-14-35	1	11.530	1	No chart		.08	No chart			84	53			0					
5-14-35	2	9.386	1	No chart		.08	No chart			84	53			0					
5-14-35	3	10.711	1	No chart		.08	No chart			84	53			0					
5-14-35	5	5.532	1	No chart		.08	No chart			84	53			0					
5-14-35	6	6.044	1	No chart		.08	No chart			84	53			0					
5-15-35	1	11.530	1	No chart		.60	No chart			73	50			0					
5-15-35	2	9.386	1	No chart		.60	No chart			73	50			0					
5-15-35	3	10.711	1	No chart		.60	No chart			73	50			0					
5-15-35	5	5.532	1	No chart		.60	No chart			73	50			0					
5-15-35	6	6.044	1	No chart		.60	No chart			73	50			0					
5-16-35	1	11.530	1	No chart		.29	No chart			71	51			0					
5-16-35	2	9.386	1	No chart		.29	No chart			71	51			0					
5-16-35	3	10.711	1	No chart		.29	No chart			71	51			0					
5-16-35	5	5.532	1	No chart		.29	No chart			71	51			0					
5-16-35	6	6.044	1	No chart		.29	No chart			71	51			0					
5-17-35	1	11.530	1	10:20A	190	1.62 2.14	2.88	1.28	1.08	59	47								
5-18-35	1	11.530	1	6:20P	150	.52	3.12	1.20	.68	72	52	Runoff chart		.37	not available		1.77		Total runoff from station annual report
5-17-35	2	9.386	1	10:20A	190	1.62 2.14	2.88	1.28	1.08	59	47	11:40A							
5-18-35	2	9.386	1	6:20P	150	.52	3.12	1.20	.68	72	52		12:00M	.75	5.10	12:20P	1.39		Total runoff from station annual report
5-17-35	3	10.711	1	10:20A	190	1.62 2.14	2.88	1.28	1.08	59	67	12:00N							
5-18-35	3	10.711	1	6:20P	150	.52	3.12	1.20	.68	72	52		3:00A	.47	4.40	12:50P	1.67		Total runoff from station annual report
5-17-35	5	5.532	1	10:20A	190	1.62 2.14	2.88	1.28	1.08	59	47	11:35A							
5-18-35	5	5.532	1	6:20P	150	.52	3.12	1.20	.68	72	52		10:20P	.86	5.50	12:50P	1.28		Total runoff from station annual report
5-17-35	6	6.044	1	10:20A	190	1.62 2.14	2.88	1.28	1.08	59	47								
5-18-35	6	6.044	1	6:20P	150	.52	3.12	1.20	.68	72	52	1:00P	11:00P	.09	1.45	1:30P	2.05		Total runoff rom station annual report

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH May, 1935

SHEET 67 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-23-35	1	11.530	1	6:30P	10	.12	.96			80	58			0					
5-23-35	2	9.386	1	6:30P	10	.12	.96			80	58			0					
5-23-35	3	10.711	1	6:30P	10	.12	.96			80	58			0					
5-23-35	5	5.532	1	6:30P	10	.12	.96			80	58			0					
5-23-35	6	6.044	1	6:30P	10	.12	.96			80	58			0					
5-25-35	1	11.530	1	3:05A	30	.11	.72	.48	.22	84	49			0					
5-25-35	2	9.386	1	3:05A	30	.11	.72	.48	.22	84	49			0					
5-25-35	3	10.711	1	3:05A	30	.11	.72	.48	.22	84	49			0					
5-25-35	5	5.532	1	3:05A	30	.11	.72	.48	.22	84	49			0					
5-25-35	6	6.044	1	3:05A	30	.11	.72	.48	.22	84	49			0					
5-27-35	1	11.530	1	No chart		.06	No chart			86	68			0					
5-27-35	2	9.386	1	No chart		.06	No chart			86	68			0					
5-27-35	3	10.711	1	No chart		.06	No chart			86	68			0					
5-27-35	5	5.532	1	No chart		.06	No chart			86	68			0					
5-27-35	6	6.044	1	No chart		.06	No chart			86	68			0					
5-30-35	1	11.530	1	No chart		.04	No chart			98	60			0					
5-30-35	2	9.386	1	No chart		.04	No chart			98	60			0					
5-20-35	3	10.711	1	No chart		.04	No chart			98	60			0					
5-30-25	5	5.532	1	o chart		.04	No chart			98	60			0					
5-30-35	6	6.044	1	No chart		.04	No chart			98	60			0					
5-31-35	1	11.530	1	3:20P	45	.20	1.08	.64	.32	93	65			0					
5-31-35	2	9.386	1	3:20P	45	.20	1.08	.64	.32	93	65			0					
5-31-35	3	10.711	1	3:20P	45	.20	1.08	.64	.32	93	65			0					
5-31-35	5	5.532	1	3:20P	45	.20	1.08	.64	.32	93	65			0					
5-31-35	6	6.044	1	3:20P	45	.20	1.08	.64	.32	93	65			0					
5-31-35	1	11.530	1	8:10P	15		.48	.32	.16	93	65								
5-31-35	1	11.530	1	11:05P	55		2.16	1.28	.88	93	65								
6-1-35	1	11.530	1	12:00M	15	.58	VL	VL	VL	84	59	Runoff	chart	.06	not available		.52	Total runoff from station annual report	
5-31-35	2	9.386	1	8:10P	15		.48	.32	.16	93	65								
5-31-35	2	9.386	1	11:05P	55		2.16	1.28	.88	93	65								
6-1-35	2	9.386	1	12:00M	15	.58	VL	VL	VL	84	59	Runoff	chart	.10	not available		.48	Total runoff from station annual report	
5-31-35	3	10.711	1	8:10P	15		.48	.32	.16	93	65								
5-31-35	3	10.711	1	11:05P	55		2.16	1.28	.88	93	65								
6-1-35	3	10.711	1	12:00M	15	.58	VL	VL	VL	84	59	Runoff	chart	.05	not available		.53	Total runoff from station annual report.	
5-31-35	5	5.532	1	8:10P	15		.48	.32	.16	93	65								
5-31-35	5	5.532	1	11:05P	55		2.16	1.28	.88	93	65								
6-1-35	5	5.532	1	12:00M	15	.58	VL	VL	VL	84	59	Runoff	chart	.12	not available		.46	Total runoff from s ation annual report.	
5-31-35	6	6.044	1	8:10P	15		.48	.32	.16	93	65								
5-31-35	6	6.044	1	11:05P	55		2.16	1.28	.88	93	65								
6-1-35	6	6.044	1	12:00M	15	.58	VL	VL	VL	84	59			0			.58		

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month June, 1935

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Sheet 66 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate: Cu. ft. sec.	Maximum Rate: Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-4-35	1	11,530	1	1:45P	150	.70	2.52	1.12	.52	79	57	3:02P	9:52P	.05	.61	4:05P	.65		Total runoff from station annual report
6-4-35	2	9,386	1	1:45P	150	.70	2.52	1.12	.52	79	57	3:00P	11:35P	.09	.65	4:00P	.61		Total runoff from station annual report
6-4-35	3	10,711	1	1:45P	150	.70	2.52	1.12	.52	79	57	4:45P	9:15P	.03	.10	5:35P	.67		Total runoff from station annual report
6-4-35	5	5,532	1	1:45P	150	.70	2.52	1.12	.52	79	57	Runoff	chart	.11	not available		.59		Total runoff from station annual report
6-4-35	6	6,044	1	1:45P	150	.70	2.52	1.12	.52	79	57			0			.70		
6-7-35	1	11,530	1	12:15A	345	1.75	2.04	1.24	1.04	81	54	1:40	3:10P	1.13	7.50	3:25A	.62		
6-7-35	2	9,386	1	12:15A	345	1.75	2.04	1.24	1.04	81	54	1:00A	6:55A	.68	3.84	3:40A	1.07		
6-7-35	3	10,711	1	12:15A	345	1.75	2.04	1.24	1.04	81	54	1:15A	7:40A	.57	3.14	3:45A	1.18		
6-7-35	5	5,532	1	12:15A	345	1.75	2.04	1.24	1.04	81	54	Runoff	chart	.86	not available		.89		Total runoff from station annual report
6-7-35	6	6,044	1	12:15A	345	1.75	2.04	1.24	1.04	81	54	3:30A	6:00A	.07	.29	3:50A	1.68		
6-11-35	1	11,530	1	7:20P	280	.16	.12	VL	VL	87	62			0					
6-12-35	1	11,530	1	12:00M	310	.20	.48	.72	.20	72	60			0					
6-12-35	1	11,530	1	8:00P	70	.07	.12	VL	VL	72	60			0					
6-11-35	2	9,386	1	7:20P	280	.16	.12	VL	VL	87	62			0					
6-12-35	2	9,386	1	12:00M	310	.20	.48	.32	.20	72	60			0					
6-12-35	2	9,386	1	8:00P	70	.07	.12	VL	VL	72	60			0					
6-11-35	3	10,711	1	7:20P	280	.16	.12	VL	VL	87	62			0					
6-12-35	3	10,711	1	12:00M	310	.20	.48	.32	.20	72	60			0					
6-12-35	3	10,711	1	8:00P	70	.07	.12	VL	VL	72	60			0					
6-11-35	5	5,532	1	7:20P	280	.16	.12	VL	VL	87	62			0					
6-12-35	5	5,532	1	12:00M	310	.20	.48	.32	.20	72	60			0		6			
6-12-35	5	5,532	1	8:00P	70	.07	.12	VL	VL	72	60			0					
6-11-35	6	6,044	1	7:20P	280	.16	.12	VL	VL	87	62			0					
6-12-35	6	6,044	1	12:00M	310	.20	.48	.32	.20	72	60			0					
6-12-35	6	6,044	1	8:00P	70	.07	.12	VL	VL	72	60			0					
6-13-35	1	11,530	1	12:20A	360	.92 .75	1.20	.48	.28	80	55								
6-13-35	1	11,530	1	5:25P	50	.17	.72	.32	.16	80	55			0					
6-13-35	2	9,386	1	12:20A	360	.92 .75	1.20	.48	.28	80	55								
6-13-35	2	9,386	1	5:25P	50	.17	.72	.32	.16	80	55	Runoff	chart	.03	not available		.89		Runoff total from station annual report
6-13-35	3	10,711	1	12:20A	360	.92 .75	1.20	.48	.28	80	55			0					
6-13-35	3	10,711	1	5:25P	50	.17	.72	.32	.16	80	55			0					
6-13-35	5	5,532	1	12:20A	360	.92 .75	1.20	.48	.28	80	55								
6-13-35	5	5,532	1	5:25P	50	.17	.72	.32	.16	80	55	10:40A	5:20P	.04	.34	10:20A	.68		Runoff total from station annual report.
6-13-35	6	6,044	1	12:20A	360	.92 .75	1.20	.48	.28	80	55								
6-13-35	6	6,044	1	5:25P	50	.17	.72	.32	.16	80	55			0					
6-14-35	1	11,530	1	9:05A	5	.03	.36			81	64			0					
6-14-35	2	9,386	1	9:05A	5	.03	.36			81	64			0					
6-14-35	3	10,711	1	9:05A	5	.03	.36			81	64			0					
6-14-35	5	5,532	1	9:05A	5	.03	.36			81	64			0					
6-14-35	6	6,044	1	9:05A	5	.03	.36			81	64			0					

Form S. C. S.-343

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH June, July, 1935

SHEET 69 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (Inches)	SILT LOSS (Tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-15-35	1	11.530	1	3:40P	50	.02	VL	VL	VL	87	65			0					
6-15-35	2	9.386	1	3:40P	50	.02	VL	VL	VL	87	65			0					
6-15-35	3	10.711	1	3:40P	50	.02	VL	VL	VL	87	65			0					
6-15-35	5	5.532	1	3:40P	50	.02	VL	VL	VL	87	65			0					
6-15-35	6	6.044	1	3:40P	50	.02	VL	VL	VL	87	65			0					
6-17-35	1	11.530	1	4:05P	25	.72	3.72	2.68	1.44	89	68	4:10P	9:25P	.31	2.44	4:30P	.41		
6-17-35	2	9.386	1	4:05P	25	.72	3.72	2.68	1.44	89	68	4:25P	8:05P	.31	4.62	4:40P	.41		
6-17-35	3	10.711	1	4:05P	25	.72	3.72	2.68	1.44	89	68	4:25P	7:45P	.22	2.98	4:45P	.50		
6-17-35	5	5.532	1	4:05P	25	.72	3.72	2.68	1.44	89	68	4:20P	5:40P	.28	3.32	4:35P	.44		
6-17-35	6	6.044	1	4:05P	25	.72	3.72	2.68	1.44	89	68	4:25P	6:35P	.04	.34	4:35P	.68		
6-23-35	1	11.530	1	2:20A	140	1.48	3.60	2.44	1.46	86	61	3:10A	8:05A	.66	5.48	3:45A	.82		
6-23-35	2	9.386	1	2:20A	140	1.48	3.60	2.44	1.46	86	61	Runoff	chart	.60	not available		.88		Runoff total from station annual report.
6-23-35	3	10.711	1	2:20A	140	1.48	3.60	2.44	1.46	86	61	3:05A	6:45A	.37	2.68	4:25A	1.11		
6-23-35	5	5.532	1	2:20A	140	1.48	3.60	2.44	1.46	86	61	2:50A	5:35A	.72	3.72	3:35A	.76		
6-23-35	6	6.044	1	2:20A	140	1.48	3.60	2.44	1.46	86	61	3:00A	6:20A	.45	1.84	3:25A	1.03		
6-29-35	1	11.530	1	1:50A	140	.30	.48	.26	.18	90	65			0					
6-29-35	2	9.386	1	1:50A	140	.30	.48	.26	.18	90	65			0					
6-29-35	3	10.711	1	1:50A	140	.30	.48	.26	.18	90	65			0					
6-29-35	5	5.532	1	1:50A	140	.30	.48	.26	.18	90	65			0					
6-29-35	6	6.044	1	1:50A	140	.30	.48	.26	.18	90	65			0					
7-12-35	1	11.530	1	4:10P	10	.09	1.08			104	71			0					
7-12-35	2	9.386	1	4:10P	10	.09	1.08			104	71			0					
7-12-35	3	10.711	1	4:10P	10	.09	1.08			104	71			0					
7-12-35	5	5.532	1	4:10P	10	.09	1.08			104	71			0					
7-12-35	6	6.044	1	4:10P	10	.09	1.08			104	71			0					
7-13-35	1	11.530	1	12:50A	140	.25	.72	.24	.18	94	67			0					
7-13-35	2	9.386	1	12:50A	140	.25	.72	.24	.18	94	67			0					
7-13-35	3	10.711	1	12:50A	140	.25	.72	.24	.18	94	67			0					
7-13-35	5	5.532	1	12:50A	140	.25	.72	.24	.18	94	67			0					
7-13-35	6	6.044	1	12:50A	140	.25	.72	.24	.16	94	67			0					
7-18-35	1	11.530	1	No chart		.01	No chart			90	65			0					
7-18-35	2	9.386	1	No chart		.01	No chart			90	65			0					
7-18-35	3	10.711	1	No chart		.01	No chart			90	65			0					
7-18-35	5	5.532	1	No chart		.01	No chart			90	65			0					
7-18-35	6	6.044	1	No chart		.01	No chart			90	65			0					
7-20-35	1	11.530	1	5:00P	90	.09	VL	VL	VL	95	66			0					
7-20-35	2	9.386	1	5:00P	90	.09	VL	VL	VL	95	66			0					
7-20-35	3	10.711	1	5:00P	90	.09	VL	VL	VL	95	66			0					
7-20-35	5	5.532	1	5:00P	90	.09	VL	VL	VL	95	66			0					
7-20-35	6	6.044	1	5:00P	90	.09	VL	VL	VL	95	66			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month, July, August, 19 35

Sheet 70 of 99 sheets

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-21-35	1	11.530	1	6:00P	30	.05	VL	VL	VL	93	63			0					
7-21-35	2	9.386	1	6:00P	30	.05	VL	VL	VL	93	63			0					
7-21-35	3	10.711	1	6:00P	30	.05	VL	VL	VL	93	63			0					
7-21-35	5	5.532	1	6:00P	30	.05	VL	VL	VL	93	63			0					
7-21-35	6	6.044	1	6:00P	30	.05	VL	VL	VL										
7-23-35	1	11.530	1	4:10P	65	.28	.96	.48	.32	93	67			0					
7-23-35	2	9.386	1	4:10P	65	.28	.96	.48	.32	93	67			0					
7-23-35	3	10.711	1	4:10P	65	.28	.96	.48	.32	93	67			0					
7-23-35	5	5.532	1	4:10P	65	.28	.96	.48	.32	93	67			0					
7-23-35	6	6.044	1	4:10P	65	.28	.96	.48	.32										
7-28-35	1	11.530	1	6:05P	30	.22	1.20	.56	.44	98	69			0					
7-28-35	2	9.386	1	6:05P	30	.22	1.20	.56	.44	98	69			0					
7-28-35	3	10.711	1	6:05P	30	.22	1.20	.56	.44	98	69			0					
7-28-35	5	5.532	1	6:05P	30	.22	1.20	.56	.44	98	69			0					
7-28-35	6	6.044	1	6:05P	30	.22	1.20	.56	.44										
8-1-35	1	11.530	1	2:30P	15	.10	.48	.20		90	70			0					
8-1-35	2	9.386	1	2:30P	15	.10	.48	.20		90	70			0					
8-1-35	3	10.711	1	2:30P	15	.10	.48	.20		90	70			0					
8-1-35	5	5.532	1	2:30P	15	.10	.48	.20		90	70			0					
8-1-35	6	6.044	1	2:30P	15	.10	.48	.20											
8-13-35	1	11.530	1	12:40A	40	.40	1.68	1.12	.56	91	68			0					
8-13-35	1	11.530	1	12:55A	45	.24	.96	.48	.36	91	68			0					
8-13-35	2	9.386	1	12:40A	40	.40	1.68	1.12	.56	91	68			0					
8-13-35	2	9.386	1	2:55A	45	.24	.96	.48	.36	91	68			0					
8-13-35	3	10.711	1	12:40A	40	.20	1.68	1.12	.56	91	68			0					
8-13-35	3	10.711	1	2:55A	45	.24	.96	.48	.36	91	68			0					
8-13-35	5	5.532	1	12:40A	40	.40	1.68	1.12	.56	91	68			0					
8-13-35	5	5.532	1	2:55A	45	.24	.96	.48	.36	91	68			0					
8-13-35	6	6.044	1	12:40A	40	.40	1.68	1.12	.56	91	68			0					
8-13-35	6	6.044	1	2:55A	45	.24	.96	.48	.36										
8-27-35	1	11.530	1	11:40A	10	.16	1.44			90	74			0					
8-27-35	2	9.386	1	11:40A	10	.16	1.44			90	74			0					
8-27-35	3	10.711	1	11:40A	10	.16	1.44			90	74			0					
8-27-35	5	5.532	1	11:40A	10	.16	1.44			90	74			0					
8-27-35	6	6.044	1	11:40A	10	.16	1.44												
8-29-35	1	11.530	1	No chart		.15	No chart			86	67			0					
8-29-35	2	9.386	1	No chart		.15	No chart			86	67			0					
8-29-35	3	10.711	1	No chart		.15	No chart			86	67			0					
8-29-35	5	5.532	1	No chart		.15	No chart			86	67			0					
8-29-35	6	6.044	1	No chart		.15	No chart												

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH September, 1935

SHEET 71 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	19
9-1-35	1	11.530	1	10:50A	100	.18	.48	.24	.16	90	63			0					
9-1-35	1	11.530	1	9:20P	15	.24	1.07	1.44	.96	90	63			0					
9-2-35	1	11.530	1	12:40A	360	.65	.56	.30	.20	80	63			0					
9-1-35	2	9.386	1	10:50A	100	.18	.48	.24	.16	90	63			0					
9-1-35	2	9.386	1	9:20P	15	.24	1.07	1.44	.96	90	63			0					
9-2-35	2	9.386	1	12:40A	360	.65	.56	.30	.20	80	63			0					
9-1-35	3	10.711	1	10:50A	100	.18	.48	.24	.16	90	63			0					
9-1-35	3	10.711	1	9:20P	15	.24	1.07	1.44	.96	90	63			0					
9-2-35	3	10.711	1	12:40A	360	.65	.56	.30	.20	80	63			0					
9-1-35	5	5.532	1	10:50A	100	.18	.48	.24	.16	90	63			0					
9-1-35	5	5.532	1	9:20P	15	.24	1.07	1.44	.96	90	63			0					
9-2-35	5	5.532	1	12:40A	360	.65	.56	.30	.20	80	63			0					
9-1-35	6	6.044	1	10:50A	100	.18	.48	.24	.16	90	63			0					
9-1-35	6	6.044	1	9:20P	15	.24	1.07	1.44	.96	90	63			0					
9-2-35	6	6.044	1	12:40A	360	.65	.56	.30	.20	80	63			0					
9-4-35	1	11.530	1	5:40A	60	.49	1.20	.80	.72	71	60			0					
9-4-35	2	9.386	1	5:40A	60	.49	1.20	.80	.72	71	60			0					
9-4-35	3	10.711	1	5:40A	60	.49	1.20	.80	.72	71	60			0					
9-4-35	5	5.532	1	5:40A	60	.49	1.20	.80	.72	71	60			0					
9-4-35	6	6.044	1	5:40A	60	.49	1.20	.80	.72	71	60			0					
9-5-35	1	11.530	1	No chart		.10	No chart			70	61			0					
9-5-35	2	9.386	1	No chart		.10	No chart			70	61			0					
9-5-35	3	10.711	1	No chart		.10	No chart			70	61			0					
9-5-35	5	5.532	1	No chart		.10	No chart			70	61			0					
9-5-35	6	6.044	1	No chart		.10	No chart			70	61			0					
9-7-35	1	11.530	1	7:30A	25	.03	VL	VL		76	58			0					
9-7-35	2	9.386	1	7:30A	25	.03	VL	VL		76	58			0					
9-7-35	3	10.711	1	7:30A	25	.03	VL	VL		76	58			0					
9-7-35	5	5.532	1	7:30A	25	.03	VL	VL		76	58			0					
9-7-35	6	6.044	1	7:30A	25	.03	VL	VL		76	58			0					
9-8-35	1	11.530	1	3:30P	40	.53	2.40	1.28	1.02	83	58			0					
9-8-35	1	11.530	1	8:00P	120	.32	.48	.24	.16	83	58			0					
9-9-35	1	11.530	1	2:10A	20	.30	1.44	.80		73	56			0					
9-8-35	2	9.386	1	3:30P	40	.53	2.40	1.28	1.02	83	58	4:10P	10:50A	.10	.72	3:10A	1.05		Runoff from station annual report
9-8-35	2	9.386	1	8:00P	120	.32	.48	.24	.16	83	58			0					
9-9-35	2	9.386	1	2:10A	20	.30	1.44	.80		73	56			0					
9-8-35	3	10.711	1	3:30P	40	.53	2.40	1.28	1.02	83	58			0					
9-8-35	3	10.711	1	8:00P	120	.32	.48	.24	.16	83	58			0					
9-9-35	3	10.711	1	2:10A	20	.30	1.44	.80		73	56			0					
9-8-35	5	5.532	1	3:30P	40	.53	2.40	1.28	1.02	83	58	2:55P	10:40A	.10	1.3	3:15A	1.05		Runoff from station annual report.
9-8-35	5	5.532	1	8:00P	120	.32	.48	.24	.16	83	58			0					
9-9-35	5	5.532	1	2:10A	20	.30	1.44	.80		73	56								

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month Sept., Oct., 19 35

Sheet 72 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Runoff					Rainfall Minus Runoff (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-8-35	6	6.044	1	3:30P	40	.53	2.40	1.28	1.02	83	58			0					
9-8-35	6	6.044	1	8:00P	120	.32	.48	.24	.16	83	58			0					
9-9-35	6	6.044	1	2:10A	20	.30	1.44	.30		73	56			0					
9-24-35	1	11.530	1	12:30P	250	.78	1.20	.48	.28	76	59			0					
9-24-35	2	9.386	1	12:30P	350	.78	1.20	.48	.28	76	59			0					
9-24-35	3	10.711	1	12:30P	350	.78	1.20	.48	.28	76	59			0					
9-24-35	5	5.532	1	12:30P	350	.78	1.20	.48	.28	76	59			0					
9-24-35	6	6.044	1	12:30P	350	.78	1.20	.18	.28	76	59			0					
10-9-35	1	11.530	1	7:20P	10	.11	.72			83	54			0					
10-9-35	2	9.386	1	7:20P	10	.11	.72			83	54			0					
10-9-35	3	10.711	1	7:20P	10	.11	.72			83	54			0					
10-9-35	5	5.532	1	7:20P	10	.11	.72			83	54			0					
10-9-35	6	6.044	1	7:20P	10	.11	.72			83	54			0					
10-10-35	1	11.530	1	No chart		.03	No chart			77	54			0					
10-10-35	2	9.386	1	No chart		.03	No chart			77	54			0					
10-10-35	3	10.711	1	No chart		.03	No chart			77	54			0					
10-10-35	5	5.532	1	No chart		.03	No chart			77	54			0					
10-10-35	6	6.044	1	No chart		.03	No chart			77	54			0					
10-17-35	1	11.530	1	No chart		.05	No chart			80	61			0					
10-17-35	2	9.386	1	No chart		.05	No chart			80	61			0					
10-17-35	3	10.711	1	No chart		.05	No chart			80	61			0					
10-17-35	5	5.532	1	No chart		.05	No chart			80	61			0					
10-17-35	6	6.044	1	No chart		.05	No chart			80	61			0					
10-18-35	1	11.530	1	7:10P	90		3.36	1.52	.96	71	55			0					
10-19-35	1	11.530	1	1:50A	250	1.49	1.20	.72	.64	78	49			0					
10-18-35	2	9.386	1	7:10P	90		3.36	1.52	.96	71	55			0					
10-19-35	2	9.386	1	1:50A	250	1.49	1.20	.72	.64	78	49	Runoff chart		.06	not available		1.43		Runoff total from station annual report
10-18-35	3	10.711	1	7:10P	90		3.36	1.52	.96	71	55			0					
10-19-35	3	10.711	1	1:50A	250	1.49	1.20	.72	.64	78	49			0					
10-18-35	5	5.532	1	7:10P	90		3.36	1.52	.96	71	55			0					
10-19-35	5	5.532	1	1:50A	250	1.49	1.20	.72	.64	78	49	8:10P	8:55A	.20	1.64	3:10A	1.29		Runoff total from station annual report
10-18-35	6	6.044	1	7:10P	90		3.36	1.52	.96	71	55			0					
10-19-35	6	6.044	1	1:50A	250	1.49	1.20	.72	.64	78	49	Runoff chart		.04	not available		1.45		Runoff total from station annual report
10-23-35	1	11.530	1	10:35A	145	.15	.24	.18	.08	53	39			0					
10-23-35	2	9.386	1	10:35A	145	.15	.24	.18	.08	53	39			0					
10-23-35	3	10.711	1	10:35A	145	.15	.24	.18	.08	53	39			0					
10-23-35	5	5.532	1	10:35A	145	.15	.24	.18	.08	53	39			0					
10-23-35	6	6.044	1	10:35A	145	.15	.24	.18	.08	53	39			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Oct., Nov., , 1935

Project Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 73 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Runoff					Rainfall Minus Run-off (inches)	Silt Load (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-24-35	1	11.530	1	8:30A	630	.27	.12	VL	VL	42	36			0					
10-24-35	2	9.386	1	8:30A	630	.27	.12	VL	VL	42	36			0					
10-24-35	3	10.711	1	8:30A	630	.27	.12	VL	VL	42	36			0					
10-24-35	5	5.532	1	8:30A	630	.27	.12	VL	VL	42	36			0					
10-24-35	6	6.044	1	8:30A	630	.27	.12	VL	VL	42	36			0					
10-25-35	1	11.530	1	1:50A	110	.10	VL	VL	VL	53	38			0					
10-25-35	2	9.386	1	1:50A	110	.10	VL	VL	VL	53	38			0					
10-25-35	3	10.711	1	1:50A	110	.10	VL	VL	VL	53	38			0					
10-25-35	5	5.532	1	1:50A	110	.10	VL	VL	VL	53	38			0					
10-25-35	6	6.044	1	1:50A	110	.10	VL	VL	VL	53	38			0					
10-30-35	1	11.530	1	No chart		.02	No chart			76	52			0					
10-30-35	2	9.386	1	No chart		.02	No chart			76	52			0					
10-30-35	3	10.711	1	No chart		.02	No chart			76	52			0					
10-30-35	5	5.532	1	No chart		.02	No chart			76	52			0					
10-30-35	6	6.044	1	No chart		.02	No chart			76	52			0					
11-2-35	1	11.530	1	No chart		.01	No chart			70	41			0					
11-2-35	2	9.386	1	No chart		.01	No chart			70	41			0					
11-2-35	3	10.711	1	No chart		.01	No chart			70	41			0					
11-2-35	5	5.532	1	No chart		.01	No chart			70	41			0					
11-2-35	6	6.044	1	No chart		.01	No chart			70	41			0					
11-8-35	1	11.530	1	7:30A	240	.03	VL	VL	VL	62	45			0					
11-8-35	2	9.386	1	7:30A	240	.03	VL	VL	VL	62	45			0					
11-8-35	3	10.711	1	7:30A	240	.03	VL	VL	VL	62	45			0					
11-8-35	5	5.532	1	7:30A	240	.03	VL	VL	VL	62	45			0					
11-8-35	6	6.044	1	7:30A	240	.03	VL	VL	VL	62	45			0					
11-9-35	1	11.530	1	3:00A	60	.17	.72	.32	.18	75	50			0					
11-9-35	2	9.386	1	3:00A	60	.17	.72	.32	.18	75	50			0					
11-9-35	3	10.711	1	3:00A	60	.17	.72	.32	.18	75	50			0					
11-9-35	5	5.532	1	3:00A	60	.17	.72	.32	.18	75	50			0					
11-9-35	6	6.044	1	3:00A	60	.17	.72	.32	.18	75	50			0					
11-11-35	1	11.530	1	No chart		.16	No chart			38	28			0					
11-11-35	2	9.386	1	No chart		.16	No chart			38	28			0					
11-11-35	3	10.711	1	No chart		.16	No chart			38	28			0					
11-11-35	5	5.532	1	No chart		.16	No chart			38	28			0					
11-11-35	6	6.044	1	No chart		.16	No chart			38	28			0					
11-25-35	1	11.530	1	10:50P	70	.25	.48	.36	.20	58	39			0					
11-25-35	2	9.386	1	10:50P	70	.25	.48	.36	.20	58	39			0					
11-25-35	3	10.711	1	10:50P	70	.25	.48	.36	.20	58	39			0					
11-25-35	5	5.532	1	10:50P	70	.25	.48	.36	.20	58	39			0					
11-25-35	6	6.044	1	10:50P	70	.25	.48	.36	.20	58	39			0					

Form S. C. S.-343

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month Nov., Dec., Jan., , 1935-36

Sheet 74 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	Maximum Intensity: 5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate: Cu. ft. sec.	Maximum Rate: Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
11-26-35	1	11.530	1	12:00M	420	.88	.72	.40	.26	63	38			0					
11-26-35	2	9.386	1	12:00M	420	.88	.72	.40	.26	63	38			0					
11-26-35	3	10.711	1	12:00M	420	.88	.72	.40	.26	63	38			0					
11-26-35	5	5.832	1	12:00M	420	.88	.72	.40	.26	63	38			0					
11-26-35	6	6.044	1	12:00M	420	.88	.72	.40	.26	63	38			0					
12-4-35	1	11.530	1	10:10P	70		.24	.06	VL	45	29			0					
12-5-35	1	11.530	1	1:10A	80	.33	.72	.32	.18	49	34			0					
12-4-35	2	9.386	1	10:10P	70		.24	.06	VL	45	29			0					
12-5-35	2	9.386	1	1:10A	80	.33	.72	.32	.18	49	34			0					
12-4-35	3	10.711	1	10:10P	70		.24	.06	VL	45	29			0					
12-5-35	3	10.711	1	1:10A	80	.33	.72	.32	.18	49	34			0					
12-4-35	5	5.832	1	10:10P	70		.24	.06	VL	45	29			0					
12-5-35	5	5.832	1	1:10A	80	.33	.72	.32	.18	49	34			0					
12-4-35	6	6.044	1	10:10P	70		.24	.06	VL	45	29			0					
12-5-35	6	6.044	1	1:10A	80	.33	.72	.32	.18	49	34			0					
12-31-35	1	11.530	1	6:10P	150	.29	.52	.30	.12	47	34			0					
12-31-35	2	9.386	1	6:10P	150	.29	.52	.30	.12	47	34			0					
12-31-35	3	10.711	1	6:10P	150	.29	.52	.30	.12	47	34			0					
12-31-35	5	5.832	1	6:10P	150	.29	.52	.30	.12	47	34			0					
12-31-35	6	6.044	1	6:10P	150	.29	.52	.30	.12	47	34			0					
1936																			
1-7-36	1	11.530	1	No chart		.04	No chart			34	25			0					Treatment of Areas 5 & 6 were reversed at the beginning of 1936. Graded terraces were put on area 6. In rebuilding the terraces the size of the field areas were altered.
1-7-36	2	9.386	1	No chart		.04	No chart			34	25			0					
1-7-36	3	10.711	1	No chart		.04	No chart			34	25			0					
1-7-36	5	5.807	1	No chart		.04	No chart			34	25			0					
1-7-36	6	5.323	1	No chart		.04	No chart			34	25			0					
1-18-36	1	11.530	1	No chart		.10	No chart			45	18			0					
1-18-36	2	9.386	1	No chart		.10	No chart			45	18			0					
1-18-36	3	10.711	1	No chart		.10	No chart			45	18			0					
1-18-36	5	5.807	1	No chart		.10	No chart			45	18			0					
1-18-36	6	5.323	1	No chart		.10	No chart			45	18			0					
1-29-36	1	11.530	1	No chart		.31	No chart			37	26			0					
1-29-36	2	9.386	1	No chart		.31	No chart			37	26			0					
1-29-36	3	10.711	1	No chart		.31	No chart			37	26			0					
1-29-36	5	5.807	1	No chart		.31	No chart			37	26			0					
1-29-36	6	5.323	1	No chart		.31	No chart			37	26			0					
1-30-36	1	11.530	1	No chart		.66	No chart			36	12			0					
1-30-36	2	9.386	1	No chart		.66	No chart			36	12			0					
1-30-36	3	10.711	1	No chart		.66	No chart			36	12			0					
1-30-36	5	5.807	1	No chart		.66	No chart			36	12			0					
1-30-36	6	5.323	1	No chart		.66	No chart			36	12			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month Mar., April, , 19 36

Sheet 75 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Runoff					Rainfall Minus Runoff (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-7-36	1	11.530	1	No chart		.15	No chart			72	35			0					
3-7-36	2	9.386	1	No chart		.15	No chart			72	35			0					
3-7-36	3	10.711	1	No chart		.15	No chart			72	35			0					
3-7-36	5	5.807	1	No chart		.15	No chart			72	35			0					
3-7-36	6	5.323	1	No chart		.15	No chart			72	35			0					
3-8-36	1	11.530	1	No chart		.07	No chart			69	44			0					
3-8-36	2	9.786	1	No chart		.07	No chart			69	44			0					
3-8-36	3	10.711	1	No chart		.07	No chart			69	44			0					
3-8-36	5	5.807	1	No chart		.07	No chart			69	44			0					
3-8-36	6	5.323	1	No chart		.07	No chart			69	44			0					
4-16-36	1	11.530	1	6:50P	165	1.07	1.44	1.20	.84	84	52			0					
4-16-36	2	9.786	1	6:50P	165	1.07	1.44	1.28	.84	84	52			0					
4-16-36	3	10.711	1	6:50P	165	1.07	1.44	1.28	.84	84	52			0					
4-16-36	5	5.807	1	6:50P	165	1.07	1.44	1.28	.84	84	52			0					
4-16-36	6	5.323	1	6:50P	165	1.07	1.44	1.28	.84	84	52			0					
4-20-36	1	11.530	1	5:30P	20	.10	.24	.12		87	57			0					
4-20-36	2	9.386	1	5:30P	20	.10	.24	.12		87	57			0					
4-20-36	3	10.711	1	5:30P	20	.10	.24	.12		87	57			0					
4-20-36	5	5.807	1	5:30P	20	.10	.24	.12		87	57			0					
4-20-36	6	5.323	1	5:30P	20	.10	.24	.12		87	57			0					
4-20-36	1	11.530	1	6:00P	30	.20	.48			76	51			0					
4-21-36	1	11.530	1	1:00A	15	.15	.60	.60		76	51			0					
4-20-36	2	9.386	1	6:00P	30	.20	.48			76	51			0					
4-21-36	2	9.386	1	1:00A	15	.15	.60	.60		76	51			0					
4-20-36	3	10.711	1	6:00P	30	.20	.48			76	51			0					
4-21-36	3	10.711	1	1:00A	15	.15	.60	.60		76	51			0					
4-20-36	5	5.807	1	6:00P	30	.20	.48			76	51			0					
4-21-36	5	5.807	1	1:00A	15	.15	.60	.60		76	51			0					
4-20-36	6	5.323	1	6:00P	30	.20	.48			76	51			0					
4-21-36	6	5.323	1	1:00A	15	.15	.60	.60		76	51			0					
4-26-36	1	11.530	1	5:05P	105	.97	3.36	3.08	1.76	85	55			0					
4-26-36	1	11.530	1											0					
4-26-36	2	9.386	1	5:05P	105	.97	3.36	3.08	1.76	85	55	5:15P	9:10P	.22	3.52	5:30P	.65		
4-26-36	2	9.386	1																
4-26-36	3	10.711	1	5:05P	105	.97	3.36	3.08	1.76	85	55	5:35P	3:35A	.15	.51	6:10P	.82		
4-26-36	3	10.711	1																
4-26-36	5	5.807	1	5:05P	105	.97	3.36	3.08	1.76	85	55			0			.97		
4-26-36	5	5.807	1																
4-26-36	6	5.323	1	5:05P	105	.97	3.36	3.08	1.76	85	55	6:10P	9:00P	.39	3.4	6:20P	.58		
4-26-36	6	5.323	1																

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH May, 1936

SHEET 76 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-6-36	1	11.530	1	10:00P	65	.39	1.64	1.28	.76	94	60			0					
5-6-36	2	9.386	1	10:00P	65	.39	1.64	1.28	.76	94	60			0					
5-6-36	3	10.711	1	10:00P	65	.39	1.64	1.28	.76	94	60			0					
5-6-36	5	5.807	1	10:00P	65	.39	1.64	1.28	.76	94	60			0					
5-6-36	6	5.323	1	10:00P	65	.39	1.64	1.28	.76	94	60			0					
5-7-36	1	11.530	1	5:35P	15	.27	2.40	1.08		90	65			0					
5-7-36	2	9.386	1	5:35P	15	.27	2.40	1.08		90	65			0					
5-7-36	3	10.711	1	5:35P	15	.27	2.40	1.08		90	65			0					
5-7-36	5	5.807	1	5:35P	15	.27	2.40	1.08		90	65			0					
5-7-36	6	5.323	1	5:35P	15	.27	2.40	1.08		90	65			0					
5-13-36	1	11.530	1	8:20P	50	.46	1.68	1.12	.74	85	57			0					
5-13-36	2	9.386	1	8:20P	50	.46	1.68	1.12	.74	85	57			0					
5-13-36	3	10.711	1	8:20P	50	.46	1.68	1.12	.74	85	57			0					
5-13-36	5	5.807	1	8:20P	50	.46	1.68	1.12	.74	85	57			0					
5-13-36	6	5.323	1	8:20P	50	.46	1.68	1.12	.74	85	57			0					
5-18-36	1	11.530	1	3:50P	115	.53	1.44	1.00	.48	88	63			0					
5-18-36	2	9.386	1	3:50P	115	.53	1.44	1.00	.48	88	63			0					
5-18-36	3	10.711	1	3:50P	115	.53	1.44	1.00	.48	88	63			0					
5-18-36	5	5.807	1	3:50P	115	.53	1.44	1.00	.48	88	63			0					
5-18-36	6	5.323	1	3:50P	115	.53	1.44	1.00	.48	88	63			0					
5-19-36	1	11.530	1	6:00P	135	.04	.12	.08	.04	76	60			0					
5-19-36	2	9.386	1	6:00P	135	.04	.12	.08	.04	76	60			0					
5-19-36	3	10.711	1	6:00P	135	.04	.12	.08	.04	76	60			0					
5-19-36	5	5.807	1	6:00P	135	.04	.12	.08	.04	76	60			0					
5-19-36	6	5.323	1	6:00P	135	.04	.12	.08	.04	76	60			0					
5-23-36	1	11.530	1	6:10P	1430	.30	.12	VL	VL	75	62			0					
5-23-36	2	9.386	1	6:10P	1430	.30	.12	VL	VL	75	62			0					
5-23-36	3	10.711	1	6:10P	1430	.30	.12	VL	VL	75	62			0					
5-23-36	5	5.807	1	6:10P	1430	.30	.12	VL	VL	75	62			0					
5-23-36	6	5.323	1	6:10P	1430	.30	.12	VL	VL	75	62			0					
5-24-36	1	11.530	1	9:50A	670	.33	.48	.24	.14	73	62			0					
5-24-36	2	9.386	1	9:50A	670	.33	.48	.24	.14	73	62			0					
5-24-36	3	10.711	1	9:50A	670	.33	.48	.24	.14	73	62			0					
5-24-36	5	5.807	1	9:50A	670	.33	.48	.24	.14	73	62			0					
5-24-36	6	5.323	1	9:50A	670	.33	.48	.24	.14	73	62			0					
5-26-36	1	11.530	1	10:40P	40	.07	.24	VL	VL	75	63			0					
5-26-36	2	9.386	1	10:40P	40	.07	.24	VL	VL	75	63			0					
5-26-36	3	10.711	1	10:40P	40	.07	.24	VL	VL	75	63			0					
5-26-36	5	5.807	1	10:40P	40	.07	.24	VL	VL	75	63			0					
5-26-36	6	5.323	1	10:40P	40	.07	.24	VL	VL	75	63			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Monthly, June, July, 1936

PROJECT Spur, Texas

SHEET 77 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-27-36	1	11.530	1	2:30A	15	.06	.24	.24		75	63			0					
5-27-36	2	9.386	1	2:30A	15	.06	.24	.24		75	63			0					
5-27-36	3	10.711	1	2:30A	15	.06	.24	.24		75	63			0					
5-27-36	5	5.807	1	2:30A	15	.06	.24	.24		75	63			0					
5-27-36	6	5.323	1	2:30A	15	.06	.24	.24		75	63			0					
5-28-36	1	11.530	1	No chart		.10	No chart			80	62			0					
5-28-36	2	9.386	1	No chart		.10	No chart			80	62			0					
5-28-36	3	10.711	1	No chart		.10	No chart			80	62			0					
5-28-36	5	5.807	1	No chart		.10	No chart			80	62			0					
5-28-36	6	5.323	1	No chart		.10	No chart			80	62			0					
5-29-36	1	11.530	1	1:35P	225	.24	.48	.24	.16	83	65			0					
5-29-36	2	9.386	1	1:35P	225	.24	.48	.24	.16	83	65			0					
5-29-36	3	10.711	1	1:35P	225	.24	.48	.24	.16	83	65			0					
5-29-36	5	5.807	1	1:35P	225	.24	.48	.24	.16	83	65			0					
5-29-36	6	5.323	1	1:35P	225	.24	.48	.24	.16	83	65			0					
6-12-36	1	11.530	1	6:10A	210	1.15	2.89	2.16	1.20	85	65			0					
6-12-36	2	9.386	1	6:10A	210	1.15	2.88	2.16	1.20	85	65			0					
6-12-36	3	10.711	1	6:10A	210	1.15	2.88	2.16	1.20	85	65			0					
6-12-36	5	5.807	1	6:10A	210	1.15	2.88	2.16	1.20	85	65			0					
6-12-36	6	5.323	1	6:10A	210	1.15	2.88	2.16	1.20	85	65			0					
6-23-36	1	11.530	1	2:15A	125	.27	.48	.32	.20	98	67			0					
6-23-36	2	9.386	1	2:15A	125	.27	.48	.32	.20	98	67			0					
6-23-36	3	10.711	1	2:15A	125	.27	.48	.32	.20	98	67			0					
6-23-36	5	5.807	1	2:15A	125	.27	.49	.32	.20	98	67			0					
6-23-36	6	5.323	1	2:15A	125	.27	.48	.32	.20	98	67			0					
6-24-36	1	11.530	1	No chart		.01	No chart			91	68			0					
6-24-36	2	9.386	1	No chart		.01	No chart			91	68			0					
6-24-36	3	10.711	1	No chart		.01	No chart			91	68			0					
6-24-36	5	5.807	1	No chart		.01	No chart			91	68			0					
6-24-36	6	5.323	1	No chart		.01	No chart			91	68			0					
7-1-36	1	11.530	1	10:40P	10	.03	.36			99	66			0					
7-1-36	2	9.386	1	10:40P	10	.03	.36			99	66			0					
7-1-36	3	10.711	1	10:40P	10	.03	.36			99	66			0					
7-1-36	5	5.807	1	10:40P	10	.03	.36			99	66			0					
7-1-36	6	5.323	1	10:40P	10	.03	.36			99	66			0					
7-5-36	1	11.530	1	12:40P	150	2.10	4.20	3.80	2.78	97	63	1:35P	8:00P	.31	4.05	1:45P	1.79		
7-5-36	2	9.386	1	12:40P	150	2.10	4.20	3.80	2.78	97	63	2:05P	7:40P	.57	6.30	2:20P	1.53		
7-5-36	3	10.711	1	12:40P	150	2.10	4.20	3.80	2.78	97	63	2:15P	5:10P	.40	4.02	2:30P	1.70		
7-5-36	5	5.807	1	12:40P	150	2.10	4.20	3.80	2.78	97	63	2:25P	8:55P	.39	2.70	2:40P	1.71		
7-5-36	6	5.323	1	12:40P	150	2.10	4.20	3.80	2.78	97	63	2:05P	6:00P	.75	7.96	2:15P	1.35		

Form S. C. S.-348

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month July, Aug, Sept. , 1936

Sheet 78 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-6-36	1	11.530	1	3:30P	10	.11	.48			74	63								
7-7-36	1	11.530	1	1:40A	80	.49	1.44	.96	.52	83	63	2:15A	7:15A	.08	1.88	3:10A	.52		Runoff total from station annual report
7-6-36	2	9.386	1	3:30P	10	.11	.48			74	63								
7-7-36	2	9.386	1	1:40A	80	.49	1.44	.96	.52	83	63	Runoff	chart	.15	not available		.45		Runoff total from station annual report
7-6-36	3	10.711	1	3:30P	10	.11	.48			74	63								
7-7-36	3	10.711	1	1:40A	80	.49	1.44	.96	.52	83	63	2:30A	7:15A	.15	2.50	3:15A	.45		Runoff total from station annual report
7-6-36	5	5.807	1	3:30P	10	.11	.48			74	63								
7-7-36	5	5.807	1	1:40A	80	.49	1.44	.96	.52	83	63	Runoff	chart	.29	not available		.31		Runoff total from station annual report
7-6-36	6	5.323	1	3:30P	10	.11	.48			74	63								
7-7-36	6	5.323	1	1:40A	80	.49	1.44	.96	.52	83	63	2:30A	7:50A	.20	3.30	2:50A	.40		Runoff total from station annual report
7-31-36	1	11.530	1	7:00P	15	.12	.96	.48		95	66			0					
7-31-36	2	9.386	1	7:00P	15	.12	.96	.48		95	66			0					
7-31-36	3	10.711	1	7:00P	15	.12	.96	.48		95	66			0					
7-31-36	5	5.807	1	7:00P	15	.12	.96	.48		95	66			0					
7-31-36	6	5.323	1	7:00P	15	.12	.96	.48		95	66			0					
8-28-36	1	11.530	1	3:00P	40	.11	.48	.24	.20	95	66			0					
8-28-36	2	9.386	1	3:00P	40	.11	.48	.24	.20	95	66			0					
8-28-36	3	10.711	1	3:00P	40	.11	.48	.24	.20	95	66			0					
8-28-36	5	5.807	1	3:00P	40	.11	.48	.24	.20	95	66			0					
8-28-36	6	5.323	1	3:00P	40	.11	.48	.24	.20	95	66			0					
9-3-36	1	11.530	1	2:50P	190	.66	1.92	1.52	.74	95	70			0					
9-3-36	2	9.386	1	2:50P	190	.66	1.92	1.52	.74	95	70			0					
9-3-36	3	10.711	1	2:50P	190	.66	1.92	1.52	.74	95	70			0					
9-3-36	5	5.807	1	2:50P	190	.66	1.92	1.52	.74	95	70			0					
9-3-36	6	5.323	1	2:50P	190	.66	1.92	1.52	.74	95	70			0					
9-4-36	1	11.530	1	6:00P	360	.36	.48	.40	.20	90	69			0					
9-4-36	2	9.386	1	6:00P	360	.36	.48	.40	.20	90	69			0					
9-4-36	3	10.711	1	6:00P	360	.36	.48	.40	.20	90	69			0					
9-4-36	5	5.807	1	6:00P	360	.36	.48	.40	.20	90	69			0					
9-4-36	6	5.323	1	6:00P	360	.36	.48	.40	.20	90	69			0					
9-5-36	1	11.530	1	7:40P	5	.05	.60			94	69			0					
9-5-36	2	9.386	1	7:40P	5	.05	.60			94	69			0					
9-5-36	3	10.711	1	7:40P	5	.05	.60			94	69			0					
9-5-36	5	5.807	1	7:40P	5	.05	.60			94	69			0					
9-5-36	6	5.323	1	7:40P	5	.05	.60			94	69			0					
9-7-36	1	11.530	1	1:35P	65	.76	3.12	1.28	1.20	95	65			0					
9-7-36	2	9.386	1	1:35P	65	.76	3.12	1.28	1.20	95	65			0					
9-7-36	3	10.711	1	1:35P	65	.76	3.12	1.28	1.20	95	65			0					
9-7-36	5	5.807	1	1:35P	65	.76	3.12	1.28	1.20	95	65			0					
9-7-36	6	5.323	1	1:35P	65	.76	3.12	1.28	1.20	95	65			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month September , 1936

Sheet 79 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Runoff					Rainfall Minus Runoff (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-15-36	1	11.530	1	10:10A	260	.21	.72	.48	.16	83	70			0					
9-15-36	2	9.386	1	10:10A	260	.21	.72	.48	.16	83	70			0					
9-15-36	3	10.711	1	10:10A	260	.21	.72	.48	.16	83	70			0					
9-15-36	5	5.807	1	10:10A	260	.21	.72	.48	.16	83	70			0					
9-15-36	6	5.323	1	10:10A	260	.21	.72	.48	.16	83	70			0					
9-16-36	1	11.530	1	11:50A	370	.61	.48	.32	.20	74	67			0					
9-16-36	2	9.386	1	11:50A	370	.61	.48	.32	.20	74	67			0					
9-16-36	3	10.711	1	11:50A	370	.61	.48	.32	.20	74	67			0					
9-16-36	5	5.807	1	11:50A	370	.61	.48	.32	.20	74	67			0					
9-16-36	6	5.323	1	11:50A	370	.61	.48	.32	.20	74	67			0					
9-17-36	1	11.530	1	1:30A	270	.56	.48	.24	.12	65	59			0					
9-17-36	2	9.386	1	1:30A	270	.56	.48	.24	.12	65	59			0					
9-17-36	3	10.711	1	1:30A	270	.56	.48	.24	.12	65	59			0					
9-17-36	5	5.807	1	1:30A	270	.56	.48	.24	.12	65	59			0					
9-17-36	6	5.323	1	1:30A	270	.56	.48	.24	.12	65	59			0					
9-18-36	1	11.530	1	1:55A	245	.22	.24	.16	.12	66	58			0					
9-18-36	1	11.530	1	9:10A	500	1.54	1.44	.72	.52	66	58			0					
9-18-36	2	9.386	1	1:55A	245	.22	.24	.16	.12	66	58								
9-18-36	2	9.386	1	9:10A	500	1.54	1.44	.72	.52	66	58	4:15A	8:00A	.10	1.82	4:25A	1.66		Runoff total from station annual report
9-18-36	3	10.711	1	1:55A	245	.22	.24	.16	.12	66	58								
9-18-36	3	10.711	1	9:10A	500	1.54	1.44	.72	.52	66	58	5:00A	8:00A	.09	2.48	5:25A	1.67		Runoff total from station annual report
9-18-36	5	5.807	1	1:55A	245	.22	.24	.16	.12	66	58								
9-18-36	5	5.807	1	9:10A	500	1.54	1.44	.72	.52	66	58	2:50A	5:20A	.24	5.25	3:35A	1.52		Runoff total from station annual report
9-18-36	6	5.323	1	1:55A	245	.22	.24	.16	.12	66	58								
9-18-36	6	5.323	1	9:10A	500	1.54	1.44	.72	.52	66	58			0					
9-19-36	1	11.530	1	1:30A	270	.52	.60	.24	.20	78	62			0					
9-19-36	2	9.386	1	1:30A	270	.52	.60	.24	.20	78	62			0					
9-19-36	3	10.711	1	1:30A	270	.52	.60	.24	.20	78	62			0					
9-19-36	5	5.807	1	1:30A	270	.52	.60	.24	.20	78	62			0					
9-19-36	6	5.323	1	1:30A	270	.52	.60	.24	.20	78	62			0					
9-20-36	1	11.530	1	3:30A	60	.13	.24	.16	.08	82	64			0					
9-20-36	2	9.386	1	3:30A	60	.13	.24	.16	.08	82	64			0					
9-20-36	3	10.711	1	3:30A	60	.13	.24	.16	.08	82	64			0					
9-20-36	5	5.807	1	3:30A	60	.13	.24	.16	.08	82	64			0					
9-20-36	6	5.323	1	3:30A	60	.13	.24	.16	.08	82	64			0					
9-20-36	1	11.530	1	12:20P						82	64								
9-21-36	1	11.530	1		1480	3.19	6.00	2.32	1.60	77	67	Runoff chart		1.58	not available		1.61		Runoff total from station annual report
9-20-36	2	9.386	1	12:20P						82	64	4:15P			13.6	4:50P			
9-21-36	2	9.386	1		1480	3.19	6.00	2.32	1.60	77	67		5:10A	2.71			.48		

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Sept., Oct., , 1936

Project. Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 80 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-20-36	3	10.711	1	12:20P						82	64	4:15P			13.2	4:50P			
9-21-36	3	10.711	1		1480	3.19	6.00	2.32	1.60	77	67		1:30A	1.39			1.80		
9-20-36	5	5.807	1	12:20P						82	64	4:30P			8.7	5:00P			
9-21-36	5	5.807	1		1480	3.19	6.00	2.32	1.60	77	67		3:00A	2.12			1.07		
9-20-36	6	5.323	1	12:20P						82	64								
9-21-36	6	5.323	1		1480	3.19	6.00	2.32	1.60	77	67	Runoff	chart	1.94	not available		1.25	Runoff total from annual report	
9-22-36	1	11.530	1	6:00P	290	.81	.96	.68	.32	80	67			0					
9-22-36	2	9.386	1	6:00P	290	.81	.96	.68	.32	80	67			0					
9-22-36	3	10.711	1	6:00P	290	.81	.96	.68	.32	80	67			0					
9-22-36	5	5.807	1	6:00P	290	.81	.96	.68	.32	80	67			0					
9-22-36	6	5.323	1	6:00P	290	.81	.96	.68	.32	80	67			0					
9-24-36	1	11.530	1	3:20P	35	.21	.60	.32	.20	73	60			0					
9-25-36	2	9.386	1	3:20P	35	.21	.60	.32	.20	73	60			0					
9-25-36	3	10.711	1	3:20P	35	.21	.60	.32	.20	73	60			0					
9-25-36	5	5.807	1	3:20P	35	.21	.60	.32	.20	73	60			0					
9-25-36	6	5.323	1	3:20P	35	.21	.60	.32	.20	73	60			0					
9-26-36	1	11.530	1	4:55A	175	.48	.72	.40	.24	69	56			0					
9-26-36	1	11.530	1	10:15A	315	.59	.60	.40	.28	69	56			0					
9-26-36	2	9.386	1	4:55A	175	.48	.72	.40	.24	69	56			0					
9-26-36	2	9.386	1	10:15A	315	.59	.60	.40	.28	69	56	Runoff	chart	.03	not available		1.04	Runoff total from annual report	
9-26-36	3	10.711	1	4:55A	175	.48	.72	.40	.24	69	56								
9-26-36	3	10.711	1	10:15A	315	.59	.60	.40	.28	69	56	Runoff	chart	.06	not available		1.01	Runoff total from annual report	
9-26-36	5	5.807	1	4:55A	175	.48	.72	.40	.24	69	56								
9-26-36	5	5.807	1	10:15A	315	.59	.60	.40	.28	69	56			0					
9-26-36	6	5.323	1	4:55A	175	.48	.72	.40	.24	69	56								
9-26-36	6	5.323	1	10:15A	315	.59	.60	.40	.28	69	56			0					
9-27-36	1	11.530	1	12:50A	85	.12	.36	.24	.12	56	46			0					
9-27-36	1	11.530	1	6:00P	105	.18	.24	.16	.08	56	46			0					
9-27-36	2	9.386	1	12:50A	85	.12	.36	.24	.12	56	46			0					
9-27-36	2	9.386	1	6:00P	105	.18	.24	.16	.08	56	46			0					
9-27-36	3	10.711	1	12:50A	85	.12	.36	.24	.12	56	46			0					
9-27-36	3	10.711	1	6:00P	105	.18	.24	.16	.08	56	46			0					
9-27-36	5	5.807	1	12:50A	85	.12	.36	.24	.12	56	46			0					
9-27-36	5	5.807	1	6:00P	105	.18	.24	.16	.08	56	46			0					
9-27-36	6	5.323	1	12:50A	85	.12	.36	.24	.12	56	46			0					
9-27-36	6	5.323	1	6:00P	105	.18	.24	.16	.06	56	46			0					
10-7-36	1	11.530	1	No chart		.03	No chart			63	47			0					
10-7-36	2	9.386	1	No chart		.03	No chart			63	47			0					
10-7-36	3	10.711	1	No chart		.03	No chart			63	47			0					
10-7-36	5	5.807	1	No chart		.03	No chart			63	47			0					
10-7-36	6	5.323	1	No chart		.03	No chart			63	47			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Oct., Nov., 1936

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOAD (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-22-36	1	11.530	1	5:20A	430	.86	.72	.48	.28	70	38			0					
10-22-36	2	9.386	1	5:20A	430	.86	.72	.48	.28	70	38			0					
10-22-36	3	10.711	1	5:20A	430	.86	.72	.48	.28	70	38			0					
10-22-36	5	5.807	1	5:20A	430	.86	.72	.48	.28	70	38			0					
10-22-36	6	5.323	1	5:20A	430	.86	.72	.48	.28	70	38			0					
10-23-36	1	11.530	1	3:40A	140	.31	.24	.20	.16	61	33			0					
10-23-36	2	9.386	1	3:40A	140	.31	.24	.20	.16	61	33			0					
10-23-36	3	10.711	1	3:40A	140	.31	.24	.20	.16	61	33			0					
10-23-36	5	5.807	1	3:40A	140	.31	.24	.20	.16	61	33			0					
10-23-36	6	5.323	1	3:40A	140	.31	.24	.20	.16	61	33			0					
10-25-36	1	11.530	1	No chart		.09	No chart			70	43			0					
10-25-36	2	9.386	1	No chart		.09	No chart			70	43			0					
10-25-36	3	10.711	1	No chart		.09	No chart			70	43			0					
10-25-36	5	5.807	1	No chart		.09	No chart			70	43			0					
10-25-36	6	5.323	1	No chart		.09	No chart			70	43			0					
10-31-36	1	11.530	1	No chart		.12	No chart			75	46			0					
10-31-36	2	9.386	1	No chart		.12	No chart			75	46			0					
10-31-36	3	10.711	1	No chart		.12	No chart			75	46			0					
10-31-36	5	5.807	1	No chart		.12	No chart			75	46			0					
10-31-36	6	5.323	1	No chart		.12	No chart			75	46			0					
11-9-36	1	11.530	1	6:10A	55	.18	.24	.12	.08	57	35			0					
11-9-36	2	9.386	1	6:10A	55	.18	.24	.12	.08	57	35			0					
11-9-36	3	10.711	1	6:10A	55	.18	.24	.12	.08	57	35			0					
11-9-36	5	5.807	1	6:10A	55	.18	.24	.12	.08	57	35			0					
11-9-36	6	5.323	1	6:10A	55	.18	.24	.12	.08	57	35			0					
11-23-36	1	11.530	1	No chart		.08	No chart			60	31			0					
11-23-36	2	9.386	1	No chart		.08	No chart			60	31			0					
11-23-36	3	10.711	1	No chart		.08	No chart			60	31			0					
11-23-36	5	5.807	1	No chart		.08	No chart			60	31			0					
11-23-36	6	5.323	1	No chart		.08	No chart			60	31			0					
11-28-36	1	11.530	1	7:30A	630	.19	.16	.12	.08	56	40			0					
11-28-36	2	9.386	1	7:30A	630	.19	.16	.12	.08	56	40			0					
11-28-36	3	10.711	1	7:30A	630	.19	.16	.12	.08	56	40			0					
11-28-36	5	5.807	1	7:30A	630	.19	.16	.12	.08	56	40			0					
11-28-36	6	5.323	1	7:30A	630	.19	.16	.12	.08	56	40			0					
11-29-36	1	11.530	1	No chart		.03	No chart			53	44			0					
11-29-36	2	9.386	1	No chart		.03	No chart			53	44			0					
11-29-36	3	10.711	1	No chart		.03	No chart			53	44			0					
11-29-36	5	5.807	1	No chart		.03	No chart			53	44			0					
11-29-36	6	5.323	1	No chart		.03	No chart			53	44			0					

Form S. C. S.-343

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Dec., Jan., 1936-37

SHEET 62 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
12-1-36	1	11.530	1	No chart		.13	No chart			55	33			0					
12-1-36	2	9.386	1	No chart		.13	No chart			55	33			0					
12-1-36	3	10.711	1	No chart		.13	No chart			55	33			0					
12-1-36	5	5.807	1	No chart		.13	No chart			55	33			0					
12-1-36	6	5.323	1	No chart		.13	No chart			55	33			0					
12-2-36	1	11.530	1	No chart		.17	No chart			48	36			0					
12-2-36	2	9.386	1	No chart		.17	No chart			48	36			0					
12-2-36	3	10.711	1	No chart		.17	No chart			48	36			0					
12-2-36	5	5.807	1	No chart		.17	No chart			48	36			0					
12-2-36	6	5.323	1	No chart		.17	No chart			48	36			0					
12-3-36	1	11.530	1	No chart		.01	No chart			45	30			0					
12-3-36	2	9.386	1	No chart		.01	No chart			45	30			0					
12-3-36	3	10.711	1	No chart		.01	No chart			45	30			0					
12-3-36	5	5.807	1	No chart		.01	No chart			45	30			0					
12-3-36	6	5.323	1	No chart		.01	No chart			45	30			0					
12-4-36	1	11.530	1	No chart		.08	No chart			47	37			0					
12-4-36	2	9.386	1	No chart		.08	No chart			47	37			0					
12-4-36	3	10.711	1	No chart		.08	No chart			47	37			0					
12-4-36	5	5.807	1	No chart		.08	No chart			47	37			0					
12-4-37	6	5.323	1	No chart		.08	No chart			47	37			0					
12-5-36	1	11.530	1	No chart		.05	No chart			58	42			0					
12-5-36	2	9.386	1	No chart		.05	No chart			58	42			0					
12-5-36	3	10.711	1	No chart		.05	No chart			58	42			0					
12-5-36	5	5.807	1	No chart		.05	No chart			58	42			0					
12-5-36	6	5.323	1	No chart		.05	No chart			58	42			0					
12-26-36	1	11.530	1	No chart		.01	No chart			61	35			0					
12-26-36	2	9.386	1	No chart		.01	No chart			61	35			0					
12-26-36	3	10.711	1	No chart		.01	No chart			61	35			0					
12-26-36	5	5.807	1	No chart		.01	No chart			61	35			0					
12-26-36	6	5.323	1	No chart		.01	No chart			61	35			0					
1937																			
1-7-37	1	11.530	1	11:20P	5	.03	.36			46	13			0					
1-7-37	2	9.386	1	11:20P	5	.03	.36			46	13			0					
1-7-37	3	10.711	1	11:20P	5	.03	.36			46	13			0					
1-7-37	5	5.807	1	11:20P	5	.03	.36			46	13			0					
1-7-37	6	5.323	1	11:20P	5	.03	.36			46	13			0					
1-8-37	1	11.530	1	No chart		.12	No chart			17	16			0					
1-8-37	2	9.386	1	No chart		.12	No chart			17	16			0					
1-8-37	3	10.711	1	No chart		.12	No chart			17	16			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT _____

MONTH Jan., March, 1937

SHEET 83 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1-8-37	5	5.807	1	No chart		.12	No chart			17	10			0					
1-8-37	6	5.323	1	No chart		.12	No chart			17	16			0					
1-9-37	1	11.530	1	No chart		.02	No chart			18	6			0					
1-9-37	2	9.386	1	No chart		.02	No chart			18	6			0					
1-9-37	3	10.711	1	No chart		.02	No chart			18	6			0					
1-9-37	5	5.807	1	No chart		.02	No chart			18	6			0					
1-9-37	6	5.323	1	No chart		.02	No chart			18	6			0					
1-14-37	1	11.530	1	4:35A	60	.10	.24	.16		57	37			0					
1-14-37	2	9.386	1	4:35A	60	.10	.24	.16		57	37			0					
1-14-37	3	10.711	1	4:35A	60	.10	.24	.16		57	37			0					
1-14-37	5	5.807	1	4:35A	60	.10	.24	.16		57	37			0					
1-14-37	6	5.323	1	4:35A	60	.10	.24	.16		57	37			0					
1-29-37	1	11.530	1	No chart		.05	No chart			56	23			0					
1-29-37	2	9.386	1	No chart		.05	No chart			56	23			0					
1-29-37	3	10.711	1	No chart		.05	No chart			56	23			0					
1-29-37	5	5.807	1	No chart		.05	No chart			56	23			0					
1-29-37	6	5.323	1	No chart		.05	No chart			56	23			0					
1-30-37	1	11.530	1	No chart		.01	No chart			65	34			0					
1-30-37	2	9.386	1	No chart		.01	No chart			65	34			0					
1-30-37	3	10.711	1	No chart		.01	No chart			65	34			0					
1-30-37	5	5.807	1	No chart		.01	No chart			65	34			0					
1-30-37	6	5.323	1	No chart		.01	No chart			65	34			0					
1-31-37	1	11.530	1	No chart		.05	No chart			59	32			0					
1-31-37	2	9.386	1	No chart		.05	No chart			59	32			0					
1-31-37	3	10.711	1	No chart		.05	No chart			59	32			0					
1-31-37	5	5.807	1	No chart		.05	No chart			59	32			0					
1-31-37	6	5.323	1	No chart		.05	No chart			59	32			0					
3-3-37	1	11.530	1	5:30A	30	.25	1.08	.64	.50	74	40			0					
3-3-37	2	9.386	1	5:30A	30	.25	1.08	.64	.50	74	40			0					
3-3-37	3	10.711	1	5:30A	30	.25	1.08	.64	.50	74	40			0					
3-3-37	5	5.807	1	5:30A	30	.25	1.08	.64	.50	74	40			0					
3-3-37	6	5.323	1	5:30A	30	.25	1.08	.64	.50	74	40			0					
3-3-37	1	11.530	1	10:25P	110	.14	.48	.12	.12	60	42			0					
3-4-37	1	11.530	1	2:25A	80	.16	.24	VL	VL	60	42			0					
3-3-37	2	9.386	1	10:25P	110	.14	.48	.12	.12	60	42			0					
3-4-37	2	9.386	1	2:25A	80	.16	.24	VL	VL	60	42			0					
3-3-37	3	10.711	1	10:25P	110	.14	.48	.12	.12	60	42			0					
3-4-37	3	10.711	1	2:25A	80	.16	.24	VL	VL	60	42			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas.

MONTH March, April, 1937

SHEET 64 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-3-37	5	5,807	1	10:25P	110	.14	.48	.12	.12	60	42			0					
3-4-37	5	5,807	1	2:25A	80	.16	.24	VL	VL	60	42			0					
3-3-37	6	5,323	1	10:25P	110	.14	.48	.12	.12	60	42			0					
3-4-37	6	5,323	1	2:25A	80	.16	.24	VL	VL	60	42			0					
3-5-37	1	11,530	1	9:30P	150	.46	1.20	.56	.32	48	40			0					
3-6-37	1	11,530	1	12:00M	455	.61	.48	.32	.20	56	40			0					
3-5-37	2	9,386	1	9:30P	150	.46	1.20	.56	.32	48	40			0					
3-6-37	2	9,386	1	12:00M	455	.61	.48	.32	.20	56	40			0					
3-5-37	3	10,711	1	9:30P	150	.46	1.20	.56	.32	48	40			0					
3-6-37	3	10,711	1	12:00M	455	.61	.48	.32	.20	56	40			0					
3-5-37	5	5,807	1	9:30P	150	.46	1.20	.56	.32	48	40			0					
3-6-37	5	5,807	1	12:00M	455	.61	.48	.32	.20	56	40			0					
3-5-37	6	5,323	1	9:30P	150	.46	1.20	.56	.32	48	40			0					
3-6-37	6	5,323	1	12:00M	455	.61	.48	.32	.20	56	40			0					
3-13-37	1	11,530	1	8:55P	80	.31	1.20	.64	.36	67	42			0					
3-13-37	2	9,386	1	8:55P	80	.31	1.20	.64	.36	67	42			0					
3-13-37	3	10,711	1	8:55P	80	.31	1.20	.64	.36	67	42			0					
3-13-37	5	5,807	1	8:55P	80	.31	1.20	.64	.36	67	42			0					
3-13-37	6	5,323	1	8:55P	80	.31	1.20	.64	.36	67	42			0					
3-29-37	1	11,530	1	No chart		.12	No chart			43	28			0					
3-29-37	2	9,386	1	No chart		.12	No chart			43	28			0					
3-29-37	3	10,711	1	No chart		.12	No chart			43	28			0					
3-29-37	5	5,807	1	No chart		.12	No chart			43	28			0					
3-29-37	6	5,323	1	No chart		.12	No chart			43	28			0					
4-3-37	1	11,530	1	7:55P	30	.21	.72	.32	.42	63	38			0					
4-3-37	2	9,386	1	7:55P	30	.21	.72	.32	.42	63	38			0					
4-3-37	3	10,711	1	7:55P	30	.21	.72	.32	.42	63	38			0					
4-3-37	5	5,807	1	7:55P	30	.21	.72	.32	.42	63	38			0					
4-3-37	6	5,323	1	7:55P	30	.21	.72	.32	.42	63	38			0					
4-11-37	1	11,530	1	No chart		.04	No chart			89	58			0					
4-14-37	2	9,386	1	No chart		.04	No chart			89	58			0					
4-14-37	3	10,711	1	No chart		.04	No chart			89	58			0					
4-14-37	5	5,807	1	No chart		.04	No chart			89	58			0					
4-14-37	6	5,323	1	No chart		.04	No chart			89	58			0					
4-19-37	1	11,530	1	3:05P	555	.17	.24	.16	.12	72	47			0					
4-20-37	1	11,530	1	5:00P	60	.44	1.68	.88	.64	76	54			0					
4-19-37	2	9,386	1	3:05P	555	.17	.24	.16	.12	72	47			0					
4-20-37	2	9,386	1	5:00P	60	.44	1.68	.88	.64	76	54			0					
4-19-37	3	10,711	1	3:05P	555	.17	.24	.16	.12	72	47			0					
4-20-37	3	10,711	1	5:00P	60	.44	1.68	.88	.64	76	54			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month Apr., May, ____, 1937

Sheet 85 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Load (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	19)
4-19-37	5	5.807	1	3:05P	555	.17	.24	.16	.12	72	47			0					
4-20-37	5	5.807	1	5:00P	60	.44	1.68	.84	.64	76	54			0					
4-19-37	6	5.323	1	3:05P	555	.17	.24	.16	.12	72	47			0					
4-20-37	6	5.323	1	5:00P	60	.44	1.68	.80	.64	76	54			0					
5-3-37	1	11.530	1	No chart		.02	No chart			80	52			0					
5-3-37	2	9.386	1	No chart		.02	No chart			80	52			0					
5-3-37	3	10.711	1	No chart		.02	No chart			80	52			0					
5-3-37	5	5.807	1	No chart		.02	No chart			80	52			0					
5-3-37	6	5.323	1	No chart		.02	No chart			80	52			0					
5-9-37	1	11.530	1	8:25P	170	.72	1.20	.56		80	59			0					
5-9-37	2	9.386	1	8:25P	170	.72	1.20	.56		80	59			0					
5-9-37	3	10.711	1	8:25P	170	.72	1.20	.56		80	59			0					
5-9-37	5	5.807	1	8:25P	170	.72	1.20	.56		80	59			0					
5-9-37	6	5.323	1	8:25P	170	.72	1.20	.56		80	59			0					
5-17-37	1	11.530	1	No chart		.01	No chart			94	62			0					
5-17-37	2	9.386	1	No chart		.01	No chart			94	62			0					
5-17-37	3	10.711	1	No chart		.01	No chart			94	62			0					
5-17-37	5	5.807	1	No chart		.01	No chart			94	62			0					
5-17-37	6	5.323	1	No chart		.01	No chart			94	62			0					
5-24-37	1	11.530	1	10:50P	70	.62	2.64	1.28	.76	90	64			0					
5-25-37	1	11.530	1	12:00M	25	.08	.24	.16		79	58			0					
5-25-37	1	11.530	1	5:35A	65	.15	.48	.24	.20	79	58			0					
5-24-37	2	9.386	1	10:50P	70	.62	2.64	1.28	.76	90	64			0					
5-25-37	2	9.386	1	12:00M	25	.08	.24	.16		79	58			0					
5-25-37	2	9.386	1	5:35A	65	.15	.48	.24	.20	79	58			0					
5-24-37	3	10.711	1	10:50P	70	.62	2.64	1.28	.76	90	64			0					
5-25-37	3	10.711	1	12:00M	25	.08	.24	.16		79	58			0					
5-25-37	3	10.711	1	5:35A	65	.15	.48	.24	.20	79	58			0					
5-24-37	5	5.807	1	10:50P	70	.62	2.64	1.28	.76	90	64			0					
5-25-37	5	5.807	1	12:00M	25	.08	.24	.16		79	58			0					
5-25-37	5	5.807	1	5:35A	65	.15	.48	.24	.20	79	58			0					
5-24-37	6	5.323	1	10:50P	70	.62	2.64	1.28	.76	90	64			0					
5-25-37	6	5.323	1	12:00M	25	.08	.24	.16		79	58			0					
5-25-37	6	5.323	1	5:35A	65	.15	.48	.24	.20	79	58			0					
5-29-37	1	11.530	1	6:25A	325	1.30	1.56	1.60	1.00	83	59	Runoff chart		.05	not available			Runoff total from station annual report	
5-29-37	2	9.386	1	6:25A	325	1.30	1.56	1.60	1.00	83	59	Runoff chart		.11	not available			Runoff total from station annual report	
5-29-37	3	10.711	1	6:25A	325	1.30	1.56	1.60	1.00	83	59			0					
5-29-37	5	5.807	1	6:25A	325	1.30	1.56	1.60	1.00	83	59			0					
5-29-37	6	5.323	1	6:25A	325	1.30	1.56	1.60	1.00	83	59	Runoff chart		.37	not available			Runoff total from station annual report	

Form M. C. M.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH June, July, 19 37

SHEET 86 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F.)		RUNOFF					RAINFALL MINUS RUNOFF (Inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu ft sec	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-2-37	1	11.630	1	No chart		.11	No chart			84	64			0					
6-2-37	2	9.386	1	No chart		.11	No chart			84	64			0					
6-2-37	3	10.711	1	No chart		.11	No chart			84	64			0					
6-2-37	5	5.807	1	No chart		.11	No chart			84	64			0					
6-2-37	6	5.323	1	No chart		.11	No chart			84	64			0					
6-3-37	1	11.630	1	1:45P	15	.28	1.44	1.12		78	59			0					
6-3-37	2	9.386	1	1:45P	15	.28	1.44	1.12		78	59			0					
6-3-37	3	10.711	1	1:45P	15	.28	1.44	1.12		78	59			0					
6-3-37	5	5.807	1	1:45P	15	.28	1.44	1.12		78	59			0					
6-3-37	6	5.323	1	1:45P	15	.28	1.44	1.12		78	59			0					
6-3-37	1	11.630	1	7:30P	90	.20	.24	.32	.40	82	56			0					
6-4-37	1	11.630	1	12:40A	130	.49	.72	.48	.36	82	56	Runoff chart		.08	not available			Runoff total from station annual report	
6-3-37	2	9.386	1	7:30P	90	.20	.24	.32	.40	82	56			0					
6-4-37	2	9.386	1	12:40A	130	.49	.72	.48	.36	82	56	Runoff chart		.70	not available			Runoff total from station annual report	
6-3-37	3	10.711	1	7:30P	90	.20	.24	.32	.40	82	56			0					
6-4-37	3	10.711	1	12:40A	130	.49	.72	.48	.36	82	56	Runoff chart		.07	notavailable			Runoff total from station annual report	
6-3-37	5	5.807	1	7:30P	90	.20	.24	.32	.40	82	56			0					
6-4-37	5	5.807	1	12:40A	130	.49	.72	.48	.36	82	56			0					
6-3-37	6	5.323	1	7:30P	90	.20	.24	.32	.40	82	56			0					
6-4-37	6	5.323	1	12:40A	130	.49	.72	.40	.36	82	56	Runoff chart		.24	not available			Runoff total from station annual report	
6-15-37	1	11.630	1	No chart		.10	No chart			94	66			0					
6-15-37	2	9.386	1	No chart		.10	No chart			94	66			0					
6-15-37	3	10.711	1	No chart		.10	No chart			94	66			0					
6-15-37	5	5.807	1	No chart		.10	No chart			94	66			0					
6-15-37	6	5.323	1	No chart		.10	No chart			94	66			0					
6-16-37	1	11.630	1	8:20P	30	.13	.72	.32	.26	92	64			0					
6-16-37	2	9.386	1	8:20P	30	.13	.72	.32	.26	92	64			0					
6-16-37	3	10.711	1	8:20P	30	.13	.72	.32	.26	92	64			0					
6-16-37	5	5.807	1	8:20P	30	.13	.72	.32	.26	92	64			0					
6-16-37	6	5.323	1	8:20P	30	.13	.72	.32	.26	92	64			0					
7-15-37	1	11.630	1	No chart		.03	No chart			104	75			0					
7-15-37	2	9.386	1	No chart		.03	No chart			104	75			0					
7-15-37	3	10.711	1	No chart		.03	No chart			104	75			0					
7-15-37	5	5.807	1	No chart		.03	No chart			104	75			0					
7-15-37	6	5.323	1	No chart		.03	No chart			104	75			0					
7-20-37	1	11.630	1	3:50A	105	.60	1.96	1.36	.84	98	64			0					
7-20-37	2	9.386	1	3:50A	105	.60	1.96	1.36	.84	98	64			0					
7-20-37	3	10.711	1	3:50A	105	.60	1.96	1.36	.84	98	64			0					
7-20-37	5	5.807	1	3:50A	105	.60	1.96	1.36	.84	98	64			0					
7-20-37	6	5.323	1	3:50A	105	.60	1.96	1.36	.84	98	64			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

Month July, August, 1937

Project Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Sheet 87 of 99 sheets

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off			Maximum Rate		Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-25-37	1	11.530	1	No chart		.05	No chart			100	72			0					
7-25-37	2	9.386	1	No chart		.05	No chart			100	72			0					
7-25-37	3	10.711	1	No chart		.05	No chart			100	72			0					
7-25-37	5	5.807	1	No chart		.05	No chart			100	72			0					
7-25-37	6	5.323	1	No chart		.05	No chart			100	72			0					
8-4-37	1	11.530	1	No chart		.02	No chart			105	70			0					
8-4-37	2	9.386	1	No chart		.02	No chart			105	70			0					
8-4-37	3	10.711	1	No chart		.02	No chart			105	70			0					
8-4-37	5	5.807	1	No chart		.02	No chart			105	70			0					
8-4-37	6	5.323	1	No chart		.02	No chart			105	70			0					
8-5-37	1	11.530	1	12:30A	195	.24	.24	VL	VL	100	69			0					
8-5-37	2	9.386	1	12:30A	195	.24	.24	VL	VL	100	69			0					
8-5-37	3	10.711	1	12:30A	195	.24	.24	VL	VL	100	69			0					
8-5-37	5	5.807	1	12:30A	195	.24	.24	VL	VL	100	69			0					
8-5-37	6	5.323	1	12:30A	195	.24	.24	VL	VL	100	69			0					
8-12-37	1	11.530	1	1:40P	10	.18	1.48			103	68			0					
8-12-37	2	9.386	1	1:40P	10	.18	1.48			103	68			0					
8-12-37	3	10.711	1	1:40P	10	.18	1.48			103	68			0					
8-12-37	5	5.807	1	1:40P	10	.18	1.48			103	68			0					
8-12-37	6	5.323	1	1:40P	10	.18	1.48			103	68			0					
8-15-37	1	11.530	1	3:50P	5	.09	1.08			100	66			0					
8-15-37	2	9.386	1	3:50P	5	.09	1.08			100	66			0					
8-15-37	3	10.711	1	3:50P	5	.09	1.08			100	66			0					
8-15-37	5	5.807	1	3:50P	5	.09	1.08			100	66			0					
8-15-37	6	5.323	1	3:50P	5	.09	1.08			100	66			0					
8-18-37	1	11.530	1	2:05P	25	.30	1.20	.88		96	66			0					
8-18-37	2	9.386	1	2:05P	25	.30	1.20	.88		96	66			0					
8-18-37	3	10.711	1	2:05P	25	.30	1.20	.88		96	66			0					
8-18-37	5	5.807	1	2:05P	25	.30	1.20	.88		96	66			0					
8-18-37	6	5.323	1	2:05P	25	.30	1.20	.88		96	66			0					
8-20-37	1	11.530	1	No chart		.04	No chart			89	70			0					
8-20-37	2	9.386	1	No chart		.04	No chart			89	70			0					
8-20-37	3	10.711	1	No chart		.04	No chart			89	70			0					
8-20-37	5	5.807	1	No chart		.04	No chart			89	70			0					
8-20-37	6	5.323	1	No chart		.04	No chart			89	70			0					

Form S. C. S.-343

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH August, 1937

SHEET 88 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
8-20-37	1	11.530	1	2:45P	5	.05	.60			89	70								
8-20-37	1	11.530	1	9:20P	40	.12	.72	.32	.22	89	70								
8-21-37	1	11.530	1	4:15A	165	.70	2.40	1.52	1.00	76	68								
8-21-37	1	11.530	1	7:20A	1000	2.20	1.44	1.20	.80	76	68								
8-22-37	1	11.530	1	12:00M	190	.85	.72	.40	.32	85	66								
8-22-37	1	11.530	1	3:10A	230	1.26	1.58	.72	.52	85	66								
8-22-37	1	11.530	1	7:00A	240	.06	VL	VL	VL	85	66								
8-22-37	1	11.530	1	8:05A	35	.12	.24	.16	.10	85	66								
8-23-37	1	11.530	1	4:10A	50	.74	1.52	1.20	.76	86	68	Runoff chart		1.69	not available		4.21	Tot al	runoff from annual report
8-20-37	2	9.386	1	2:45P	5	.05	.60	VL	VL	89	70								
8-20-37	2	9.386	1	9:20P	40	.12	.72	.32	.22	89	70								
8-21-37	2	9.386	1	4:15A	165	.70	2.40	1.52	1.00	76	68								
8-21-37	2	9.386	1	7:20A	1000	2.20	1.44	1.20	.80	76	68								
8-22-37	2	9.386	1	12:00M	190	.85	.72	.40	.32	85	66								
8-22-37	2	9.386	1	3:10A	230	1.26	1.58	.72	.52	85	66								
8-22-37	2	9.386	1	7:00A	240	.06	VL	VL	VL	85	66								
8-22-37	2	9.386	1	8:05A	35	.12	.24	.16	.10	85	66								
8-23-37	2	9.386	1	4:10A	50	.74	1.52	1.20	.76	86	68	Runoff chart		3.25	not available		2.85	Total	runoff from annual report
8-20-37	3	10.711	1	2:45P	5	.05	.60	VL	VL	89	70								
8-20-37	3	10.711	1	9:20P	40	.12	.72	.32	.22	89	70								
8-21-37	3	10.711	1	4:15A	165	.70	2.40	1.52	1.00	76	68								
8-21-37	3	10.711	1	7:20A	1000	2.20	1.44	1.20	.80	76	68								
8-22-37	3	10.711	1	12:00M	190	.85	.72	.40	.32	85	66								
8-22-37	3	10.711	1	3:10A	230	1.26	1.58	.72	.52	85	66								
8-22-37	3	10.711	1	7:00A	240	.06	VL	VL	VL	85	66								
8-22-37	3	10.711	1	8:05A	35	.12	.24	.16	.10	85	66								
8-23-37	3	10.711	1	4:10A	50	.74	1.52	1.20	.76	86	68	Runoff chart		1.46	not available		4.64	Total	runoff from annual report
8-20-37	5	5.807	1	2:45P	5	.05	.60	VL	VL	89	70								
8-20-37	5	5.807	1	9:20P	40	.12	.72	.32	.22	89	70								
8-21-37	5	5.807	1	4:15A	165	.70	2.40	1.52	1.00	76	68								
8-21-37	5	5.807	1	7:20A	1000	2.20	1.44	1.20	.80	76	68								
8-22-37	5	5.807	1	12:00M	190	.85	.72	.40	.32	85	66								
8-22-37	5	5.807	1	3:10A	230	1.26	1.58	.72	.52	85	66								
8-22-37	5	5.807	1	7:00A	240	.06	VL	VL	VL	85	66								
8-22-37	5	5.807	1	8:05A	35	.12	.24	.16	.10	85	66								
8-23-37	5	5.807	1	4:10A	50	.74	1.52	1.20	.76	86	68	Runoff chart		1.17	not available		4.93	Total	runoff from annual report
8-20-37	6	5.323	1	2:45P	5	.05	.60	VL	VL	89	70								
8-20-37	6	5.323	1	9:20P	40	.12	.72	.32	.22	89	70								
8-21-37	6	5.323	1	4:15A	165	.70	2.40	1.52	1.00	76	68								
8-21-37	6	5.323	1	7:20A	1000	2.20	1.44	1.20	.80	76	68								
8-22-37	6	5.323	1	12:00M	190	.85	.72	.40	.32	85	66								
8-22-37	6	5.323	1	3:10A	230	1.26	1.58	.72	.52	85	66								
8-22-37	6	5.323	1	7:00A	240	.06	VL	VL	VL	85	66								
8-22-37	6	5.323	1	8:05A	35	.12	.24	.16	.10	85	66								
8-23-37	6	5.323	1	4:10A	50	.74	1.52	1.20	.76	86	68	Runoff chart		2.27	not available		3.83	Total	runoff from annual report

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Sept., Oct., , 1937

SHEET 89 OF 99 SHEETS

DATE	WATERSHED		RAINFALL							TEMPERATURE (degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	6 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
9-5-37	1	11.530	1	No chart		.03	No chart			93	69			0					
9-5-37	2	9.386	1	No chart		.03	No chart			93	69			0					
9-5-37	3	10.711	1	No chart		.03	No chart			93	69			0					
9-5-37	5	5.807	1	No chart		.03	No chart			93	69			0					
9-5-37	6	5.323	1	No chart		.03	No chart			93	69			0					
9-6-37	1	11.530	1	12:15P	20	.20	1.20	.72		83	70			0					
9-6-37	1	11.530	1	8:30P	90	.93	1.92	1.92	1.40	83	70	Runoff chart		.05	not available			Total runoff from station annual report	
9-6-37	2	9.386	1	12:15P	20	.20	1.20	.72		83	70			0					
9-6-37	2	9.386	1	8:30P	90	.93	1.92	1.92	1.40	83	70	Runoff chart		.10	not available			Total runoff from station annual report	
9-6-37	3	10.711	1	12:15P	20	.20	1.20	.72		83	70			0					
9-6-37	3	10.711	1	8:30P	90	.93	1.92	1.92	1.40	83	70	Runoff chart		.06	not available			Total runoff from station annual report	
9-6-37	5	5.807	1	12:15P	20	.20	1.20	.72		83	70			0					
9-6-37	5	5.807	1	8:30P	90	.93	1.92	1.92	1.40	83	70			0					
9-6-37	6	5.323	1	12:15P	20	.20	1.20	.72		83	70			0					
9-6-37	6	5.323	1	8:30P	90	.93	1.92	1.92	1.40	83	70	Runoff chart		.11	not available			Total runoff from station annual report	
9-11-37	1	11.530	1	10:20A	25	.39	1.48	.88		79	66			0					
9-11-37	2	9.386	1	10:20A	25	.39	1.48	.88		79	66			0					
9-11-37	3	10.711	1	10:20A	25	.39	1.48	.88		79	66			0					
9-11-37	5	5.807	1	10:20A	25	.39	1.48	.88		79	66			0					
9-11-37	6	5.323	1	10:20A	25	.39	1.48	.88		79	66			0					
9-20-37	1	11.530	1	No chart		.04	No chart			87	55			0					
9-20-37	2	9.386	1	No chart		.04	No chart			87	55			0					
9-20-37	3	10.711	1	No chart		.04	No chart			87	55			0					
9-20-37	5	5.807	1	No chart		.04	No chart			87	55			0					
9-20-37	6	5.323	1	No chart		.04	No chart			87	55			0					
9-23-37	1	11.530	1	3:35P	85	.59	1.84	1.32	.80	87	61			0					
9-23-37	2	9.386	1	3:35P	85	.59	1.84	1.32	.80	87	61			0					
9-23-37	3	10.711	1	3:35P	85	.59	1.84	1.32	.80	87	61			0					
9-23-37	5	5.807	1	3:35P	85	.59	1.84	1.32	.80	87	61			0					
9-23-37	6	5.323	1	3:35P	85	.59	1.84	1.32	.80	87	61			0					
10-8-37	1	11.530	1	5:25P	10	.09	.36			89	51			0					
10-8-37	2	9.386	1	5:25P	10	.09	.36			89	51			0					
10-8-37	3	10.711	1	5:25P	10	.09	.36			89	51			0					
10-8-37	5	5.807	1	5:25P	10	.09	.36			89	51			0					
10-8-37	6	5.323	1	5:25P	10	.09	.36			89	51			0					
10-9-37	1	11.530	1	1:05A	95	.53	1.20	1.20	.80	74	56			0					
10-9-37	2	9.386	1	1:05A	95	.53	1.20	1.20	.80	74	56			0					
10-9-37	3	10.711	1	1:05A	95	.53	1.20	1.20	.80	74	56			0					
10-9-37	5	5.807	1	1:05A	95	.53	1.20	1.20	.80	74	56			0					
10-9-37	6	5.323	1	1:05A	95	.53	1.20	1.20	.80	74	56			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month Oct., Nov., ___, 1937

Project Spur, Texas

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu. ft. sec.	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
10-10-37	1	11.530	1	No chart		.01	No chart			68	50			0					
10-10-37	2	9.386	1	No chart		.01	No chart			68	50			0					
10-10-37	3	10.711	1	No chart		.01	No chart			68	50			0					
10-10-37	5	5.807	1	No chart		.01	No chart			68	50			0					
10-10-37	6	5.323	1	No chart		.01	No chart			68	50			0					
10-12-37	1	11.530	1	9:55P	125	.06	VL	VL	VL	66	58			0					
10-13-37	1	11.530	1	12:00M	815	1.57	1.08	.76	.44	61	46			0					
10-12-37	2	9.386	1	9:55P	125	.06	VL	VL	VL	66	58			0					
10-13-37	2	9.386	1	12:00M	815	1.57	1.08	.76	.44	61	46			0					
10-12-37	3	10.711	1	9:55P	125	.06	VL	VL	VL	66	58			0					
10-13-37	3	10.711	1	12:00M	815	1.57	1.08	.76	.44	61	46			0					
10-12-37	5	5.807	1	9:55P	125	.06	VL	VL	VL	66	58			0					
10-13-37	5	5.807	1	12:00M	815	1.57	1.08	.76	.44	61	46			0					
10-12-37	6	5.323	1	9:55P	125	.06	VL	VL	VL	66	58			0					
10-13-37	6	5.323	1	12:00M	815	1.57	1.08	.76	.44	61	46			0					
10-18-37	1	11.530	1	6:20P	5	.08	.96			61	46			0					
10-13-37	2	9.386	1	6:20P	5	.08	.96			61	46			0					
10-13-37	3	10.711	1	6:20P	5	.08	.96			61	46			0					
10-13-37	5	5.807	1	6:20P	5	.08	.96			61	46			0					
10-13-37	6	5.323	1	6:20P	5	.08	.96			61	46			0					
10-16-37	1	11.530	1	8:20A	5	.07	.84			70	50			0					
10-16-37	2	9.386	1	8:20A	5	.07	.84			70	50			0					
10-16-37	3	10.711	1	8:20A	5	.07	.84			70	50			0					
10-16-37	5	5.807	1	8:20A	5	.07	.84			70	50			0					
10-16-37	6	5.323	1	8:20A	5	.07	.84			70	50			0					
10-17-37	1	11.530	1	9:55A	5	.06	.72												
10-17-37	2	9.386	1	9:55A	5	.06	.72												
10-17-37	3	10.711	1	9:55A	5	.06	.72												
10-17-37	5	5.807	1	9:55A	5	.06	.72												
10-17-37	6	5.323	1	9:55A	5	.06	.72												
11-2-37	1	11.530	1	No chart		.02	No chart			65	51			0					
11-2-37	2	9.386	1	No chart		.02	No chart			65	51			0					
11-2-37	3	10.711	1	No chart		.02	No chart			65	51			0					
11-2-37	5	5.807	1	No chart		.02	No chart			65	51			0					
11-2-37	6	5.323	1	No chart		.02	No chart			65	51			0					
11-9-37	1	11.530	1	No chart		.07	No chart			68	44			0					
11-9-37	2	9.386	1	No chart		.07	No chart			68	44			0					
11-9-37	3	10.711	1	No chart		.07	No chart			68	44			0					
11-9-37	5	5.807	1	No chart		.07	No chart			68	44			0					
11-9-37	6	5.323	1	No chart		.07	No chart			68	44			0					

Form S. C. S.-245

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH Dec., Jan., 1937-38

DATE	WATERSHED		RAINFALL							TEMPERATURE (Degrees F.)		RUN-OFF					RAINFALL MINUS RUN-OFF (Inches)	SILT LOSS (Tons per acre)	CONDITION OF WATERSHED
							MAXIMUM INTENSITY								MAXIMUM RATE				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	6 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
12-3-37	1	11,530	1	No chart		.08	No chart			67	42			0					
12-3-37	2	9,386	1	No chart		.08	No chart			67	42			0					
12-3-37	3	10,711	1	No chart		.08	No chart			67	42			0					
12-3-37	5	5,807	1	No chart		.08	No chart			67	42			0					
12-3-37	6	5,323	1	No chart		.08	No chart			67	42			0					
12-13-37	1	11,530	1	No chart		.02	No chart			77	34			0					
12-13-37	2	9,386	1	No chart		.02	No chart			77	34			0					
12-13-37	3	10,711	1	No chart		.02	No chart			77	34			0					
12-13-37	5	5,807	1	No chart		.02	No chart			77	34			0					
12-13-37	6	5,323	1	No chart		.02	No chart			77	34			0					
12-14-37	1	11,530	1	No chart		.30	No chart			38	28			0					
12-14-37	2	9,386	1	No chart		.30	No chart			38	28			0					
12-14-37	3	10,711	1	No chart		.30	No chart			38	28			0					
12-14-37	5	5,807	1	No chart		.30	No chart			38	28			0					
12-14-37	6	5,323	1	No chart		.30	No chart			38	28			0					
12-28-37	1	11,530	1	No chart		.01	No chart			61	41			0					
12-28-37	2	9,386	1	No chart		.01	No chart			61	41			0					
12-28-37	3	10,711	1	No chart		.01	No chart			61	41			0					
12-28-37	5	5,807	1	No chart		.01	No chart			61	41			0					
12-28-37	6	5,323	1	No chart		.01	No chart			61	41			0					
1938																			
1-5-38	1	11,530	1	No chart		.13	No chart			48	26			0					
1-5-38	2	9,386	1	No chart		.13	No chart			48	26			0					
1-5-38	3	10,711	1	No chart		.13	No chart			48	26			0					
1-5-38	5	5,807	1	No chart		.13	No chart			48	26			0					
1-5-38	6	5,323	1	No chart		.13	No chart			48	26			0					
1-21-38	1	11,530	1	1:40P	60	.18	.24	.16	.12	56	37			0					
1-21-38	1	11,530	1	3:40P	35	.14	.36	.24	.16	56	37			0					
1-21-38	1	11,530	1	6:35P	60	.28	.48	.24	.24	56	37			0					
1-21-38	2	9,386	1	1:40P	60	.18	.24	.16	.12	56	37			0					
1-21-38	2	9,386	1	3:40P	35	.14	.36	.24	.16	56	37			0					
1-21-38	2	9,386	1	6:35P	60	.28	.48	.24	.24	56	37			0					
1-21-38	3	10,711	1	1:40P	60	.18	.24	.16	.12	56	37			0					
1-21-38	3	10,711	1	3:40P	35	.14	.36	.24	.16	56	37			0					
1-21-38	3	10,711	1	6:35P	60	.28	.48	.24	.24	56	37			0					
1-21-38	5	5,807	1	1:40P	60	.18	.24	.16	.12	56	37			0					
1-21-38	6	5,807	1	3:40P	35	.14	.36	.24	.16	56	37			0					
1-21-38	5	5,807	1	6:35P	60	.28	.48	.24	.24	56	37			0					
1-21-38	6	5,323	1	1:40P	60	.18	.24	.16	.12	56	37			0					
1-21-38	6	5,323	1	3:40P	35	.14	.36	.24	.16	56	37			0					
1-21-38	6	5,323	1	6:35P	60	.28	.48	.24	.24	56	37			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

MONTH Jan., Feb., , 19 38

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

SHEET 92 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (Degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SOIL LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1-23-38	1	11.530	1	8:00P	240	.41	.36	.16	.16	68	41			0					
1-23-38	2	9.386	1	8:00P	240	.41	.36	.16	.16	68	41			0					
1-23-38	3	10.711	1	8:00P	240	.41	.36	.16	.16	68	41			0					
1-23-38	5	5.807	1	8:00P	240	.41	.36	.16	.16	68	41			0					
1-23-38	6	5.323	1	8:00P	240	.41	.36	.16	.16	68	41			0					
2-12-38	1	11.530	1	No chart		.03	No chart			75	53			0					
2-12-38	2	9.386	1	No chart		.03	No chart			75	53			0					
2-12-38	3	10.711	1	No chart		.03	No chart			75	53			0					
2-12-38	5	5.807	1	No chart		.03	No chart			75	53			0					
2-12-38	6	5.323	1	No chart		.03	No chart			75	53			0					
2-14-38	1	11.530	1	12:30P	20	.13	.48	.20		67	46			0					
2-14-38	2	9.386	1	12:30P	20	.13	.48	.20		67	46			0					
2-14-38	3	10.711	1	12:30P	20	.13	.48	.20		67	46			0					
2-14-38	5	5.807	1	12:30P	20	.13	.48	.20		67	46			0					
2-14-38	6	5.323	1	12:30P	20	.13	.48	.20		67	46			0					
2-14-38	1	11.530	1	9:45P	135		.72	.48	.38	67	46			0					
2-15-38	1	11.530	1	12:00M	330	1.28				56	40			0					
2-14-38	2	9.386	1	9:45P	135		.72	.48	.38	67	46			0					
2-15-38	2	9.386	1	12:00M	330	1.28				56	40			0					
2-14-38	3	10.711	1	9:45P	135		.72	.48	.38	67	46			0					
2-15-38	3	10.711	1	12:00M	330	1.28				56	40			0					
2-14-38	5	5.807	1	9:45P	135		.72	.48	.38	67	46			0					
2-15-38	5	5.807	1	12:00M	330	1.28				56	40			0					
2-14-38	6	5.323	1	9:45P	135		.72	.48	.38	67	46			0					
2-15-38	6	5.323	1	12:00M	330	1.28				56	40			0					
2-16-38	1	11.530	1	12:20P	115	.30	1.20	.64	.32	54	39			0					
2-16-38	1	11.530	1	5:00P	30	.25	1.20	.72	.50	54	39			0					
2-16-38	2	9.386	1	12:20P	115	.30	1.20	.64	.32	54	39			0					
2-16-38	2	9.386	1	5:00P	30	.25	1.20	.72	.50	54	39			0					
2-16-38	3	10.711	1	12:20P	115	.30	1.20	.64	.32	54	39			0					
2-16-38	3	10.711	1	5:00P	30	.25	1.20	.72	.50	54	39			0					
2-16-38	5	5.807	1	12:20P	115	.30	1.20	.64	.32	54	39			0					
2-16-38	5	5.807	1	5:00P	30	.25	1.20	.72	.50	54	39			0					
2-16-38	6	5.323	1	12:20P	115	.30	1.20	.64	.32	54	39			0					
2-16-38	6	5.323	1	5:00P	30	.25	1.20	.72	.50	54	39			0					
2-17-28	1	11.530	1	4:10A	10	.04	.48			34	32			0					
2-17-38	1	11.530	1	5:10A	80	.50	.96	.80	.52	34	32			0					
2-17-38	2	9.386	1	4:10A	10	.04	.48			34	32			0					
2-17-38	2	9.386	1	5:10A	80	.50	.96	.80	.52	34	32			0					
2-17-38	3	10.711	1	4:10A	10	.04	.48			34	32			0					
2-17-38	3	10.711	1	5:10A	80	.50	.96	.80	.52	34	32			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Feb., March, 19 38

Project Spur, Texas

Sheet 93 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. per.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
2-17-38	5	5.807	1	4:10A	10	.04	.48			34	32			0					
2-17-38	5	5.807	1	5:10A	80	.50	.96	.80	.52	34	32			0					
2-17-38	6	5.323	1	4:10A	10	.04	.48			34	32			0					
2-17-38	6	5.323	1	5:10A	80	.50	.96	.80	.52	34	32			0					
2-21-38	1	11.530	1	No chart		.45	No chart			39	23			0					
2-21-38	2	9.386	1	No chart		.45	No chart			39	23			0					
2-21-38	3	10.711	1	No chart		.45	No chart			39	23			0					
2-21-38	5	5.807	1	No chart		.45	No chart			39	23			0					
2-21-38	6	5.323	1	No chart		.45	No chart			39	23			0					
2-24-38	1	11.530	1	11:20A	220	.26	.24	VL	VL	50	35			0					
2-24-38	2	9.386	1	11:20A	220	.26	.24	VL	VL	50	35			0					
2-24-38	3	10.711	1	11:20A	220	.26	.24	VL	VL	50	35			0					
2-24-38	5	5.807	1	11:20A	220	.26	.24	VL	VL	50	35			0					
2-24-38	6	5.323	1	11:20A	220	.26	.24	VL	VL	50	35			0					
2-25-38	1	11.530	1	5:10P	10	.04	VL			55	30			0					
2-25-38	2	9.386	1	5:10P	10	.04	VL			55	30			0					
2-25-38	3	10.711	1	5:10P	10	.04	VL			55	30			0					
2-25-38	5	5.807	1	5:10P	10	.04	VL			55	30			0					
2-25-38	6	5.323	1	5:10P	10	.04	VL			55	30			0					
2-28-38	1	11.530	1	No chart		.03	No chart			64	42			0					
2-28-38	2	9.386	1	No chart		.03	No chart			64	42			0					
2-28-38	3	10.711	1	No chart		.03	No chart			64	42			0					
2-28-38	5	5.807	1	No chart		.03	No chart			64	42			0					
2-28-38	6	5.323	1	No chart		.03	No chart			64	42			0					
3-8-38	1	11.530	1	No chart		.01	No chart			59	36			0					
3-8-38	2	9.386	1	No chart		.01	No chart			59	36			0					
3-8-38	3	10.711	1	No chart		.01	No chart			59	36			0					
3-8-38	5	5.807	1	No chart		.01	No chart			59	36			0					
3-8-38	6	5.323	1	No chart		.01	No chart			59	36			0					
3-26-38	1	11.530	1	7:30A	60	.12	.48	.23	.20	80	39			0					
3-26-38	1	11.530	1	4:35P	145	.12	.24	.16	.10	80	39			0					
3-26-38	2	9.386	1	7:30A	60	.12	.48	.24	.20	80	39			0					
3-26-38	2	9.386	1	4:35P	145	.02	.24	.16	.10	80	39			0					
3-26-38	3	10.711	1	7:30A	60	.12	.48	.24	.20	80	39			0					
3-26-38	3	10.711	1	4:35P	145	.12	.24	.16	.10	80	39			0					
3-26-38	5	5.807	1	7:30A	60	.12	.48	.24	.20	80	39			0					
3-26-38	5	5.807	1	4:35P	145	.12	.24	.16	.10	80	39			0					
3-26-38	6	5.323	1	7:30A	60	.12	.48	.24	.20	80	39			0					
3-26-38	6	5.323	1	4:35P	145	.12	.24	.16	.10	80	39			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month March, April, May, 1938

Sheet 94 of 99 sheets

U. S. GOVERNMENT PRINTING OFFICE : 8-12365

Date	Watershed		Rainfall				Maximum Intensity			Temperature (degrees F.)		Runoff					Rainfall Minus Runoff (inches)	Silt Loss (tons per acre)	Condition of Watershed
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Maximum Rate Cu ft per	Maximum Rate Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3-27-38	1	11.630	1	No chart		.25	No chart			47	36			0					
3-27-38	2	9.386	1	No chart		.25	No chart			47	36			0					
3-27-38	3	10.711	1	No chart		.25	No chart			47	36			0					
3-27-38	5	5.807	1	No chart		.25	No chart			47	36			0					
3-27-38	6	5.323	1	No chart		.25	No chart			47	36			0					
3-28-38	1	11.630	1	No chart		.32	No chart			78	41			0					
3-28-38	2	9.386	1	No chart		.32	No chart			78	41			0					
3-28-38	3	10.711	1	No chart		.32	No chart			78	41			0					
3-28-38	5	5.807	1	No chart		.32	No chart			78	41			0					
3-28-38	6	5.323	1	No chart		.32	No chart			78	41			0					
4-7-38	1	11.630	1	No chart		.05	No chart			47	25			0					
4-7-38	2	9.386	1	No chart		.05	No chart			47	25			0					
4-7-38	3	10.711	1	No chart		.05	No chart			47	25			0					
4-7-38	5	5.807	1	No chart		.05	No chart			47	25			0					
4-7-38	6	5.323	1	No chart		.05	No chart			47	25			0					
4-8-38	1	11.630	1	No chart		.03	No chart			43	24			0					
4-8-38	2	9.386	1	No chart		.03	No chart			43	24			0					
4-8-38	3	10.711	1	No chart		.03	No chart			43	24			0					
4-8-38	5	5.807	1	No chart		.03	No chart			43	24			0					
4-8-38	6	5.323	1	No chart		.03	No chart			43	24			0					
4-26-38	1	11.630	1			.02				83	62			0					
4-27-38	1	11.630	1	7:45P	50	.79	2.64	1.52	1.04	84	50			0					
4-26-38	2	9.386	1			.02				83	62			0					
4-27-38	2	9.386	1	7:45P	50	.79	2.64	1.52	1.04	84	50	Runoff chart		.19	not available		.62	Total from station annual report	
4-26-38	3	10.711	1			.02				83	62			0					
4-27-38	3	10.711	1	7:45P	50	.79	2.64	1.52	1.04	84	50			0					
4-26-38	5	5.807	1			.02				83	62			0					
4-27-38	5	5.807	1	7:45P	50	.79	2.64	1.52	1.04	84	50			0					
4-26-38	6	5.323	1			.02				83	62			0					
4-27-38	6	5.323	1	7:45P	50	.79	2.64	1.52	1.04	84	50			0					
5-3-38	1	11.630	1	3:55P	35		.72	.32	.16	92	67			0					
5-3-38	1	11.630	1	5:15P	120	.42	.96	.56	.36	92	67			0					
5-3-38	2	9.386	1	3:55P	35		.72	.32	.16	92	67			0					
5-3-38	2	9.386	1	5:15P	120	.42	.96	.56	.36	92	67			0					
5-3-38	3	10.711	1	3:55P	35		.72	.32	.16	.92	67			0					
5-3-38	3	10.711	1	5:15P	120	.42	.96	.56	.36	92	67			0					
5-3-38	5	5.807	1	3:55P	35		.72	.32	.16	92	67			0					
5-3-38	5	5.807	1	5:15P	120	.42	.96	.56	.36	92	67			0					
5-3-38	6	5.323	1	3:55P	35		.72	.32	.16	92	67			0					
5-3-38	6	5.323	1	5:15P	120	.42	.96	.56	.36	92	67			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH May, June, 1938

SHEET 95 OF 99 SHEETS

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F)		RUN-OFF					RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	MAXIMUM RATE Cu. ft. sec.	MAXIMUM RATE Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
5-6-38	1	11.530	1	No chart		.08	No chart			90	58			0					
5-6-38	2	9.386	1	No chart		.08	No chart			90	58			0					
5-6-38	3	10.711	1	No chart		.08	No chart			90	58			0					
5-6-38	5	5.807	1	No chart		.08	No chart			90	58			0					
5-6-38	6	5.323	1	No chart		.08	No chart			90	58			0					
5-9-38	1	11.530	1	No chart		.08	No chart			65	47			0					
5-9-38	2	9.386	1	No chart		.08	No chart			65	47			0					
5-9-38	3	10.711	1	No chart		.08	No chart			65	47			0					
5-9-38	5	5.807	1	No chart		.08	No chart			65	47			0					
5-9-38	6	5.323	1	No chart		.08	No chart			65	47			0					
5-17-38	1	11.530	1	9:30P	210	.89	1.68	1.44	1.12	90	57			0					
5-17-38	2	9.386	1	9:30P	210	.89	1.68	1.44	1.12	90	57			0					
5-17-38	3	10.711	1	9:30P	210	.89	1.68	1.44	1.12	90	57			0					
5-17-38	5	5.807	1	9:30P	210	.89	1.68	1.44	1.12	90	57			0					
5-17-38	6	5.323	1	9:30P	210	.89	1.68	1.44	1.12	90	57			0					
5-19-38	1	11.530	1	1:10A	250	.82	1.68	1.44	.96	85	55			0					
5-19-38	2	9.386	1	1:10A	250	.82	1.68	1.44	.96	85	55			.11			.71		Total from station annual report
5-19-38	3	10.711	1	1:10A	250	.82	1.68	1.44	.96	85	55			0					
5-19-38	5	5.807	1	1:10A	250	.82	1.68	1.44	.96	85	55			0					
5-19-38	6	5.323	1	1:10A	250	.82	1.68	1.44	.96	85	55			.10			.72		Total from station annual report
5-22-38	1	11.530	1	6:35A	30	.49	1.90	1.72	.98	82	64			0					
5-22-38	2	9.386	1	6:35A	30	.49	1.90	1.72	.98	82	64			0					
5-22-38	3	10.711	1	6:35A	30	.49	1.90	1.72	.98	82	64			0					
5-22-38	5	5.807	1	6:35A	30	.49	1.90	1.72	.98	82	64			0					
5-22-38	6	5.323	1	6:35A	30	.49	1.90	1.72	.98	82	64			0					
5-26-38	1	11.530	1	7:40P	15	.11				90	58			0					
5-26-38	2	9.386	1	7:40P	15	.11				90	58			0					
5-26-38	3	10.711	1	7:40P	15	.11				90	58			0					
5-26-38	5	5.807	1	7:40P	15	.11				90	58			0					
5-26-38	6	5.323	1	7:40P	15	.11				90	58			0					
6-4-38	1	11.530	1	11:40A	95	1.05	3.00	2.80	1.82	89	59	2:20P	12:00M	.10	.31	3:20P	.95		
6-4-38	2	9.386	1	11:40A	95	1.05	3.00	2.80	1.82	89	59	11:50A	7:00P	.36	3.71	12:15P	.69		
6-4-38	3	10.711	1	11:40A	95	1.05	3.00	2.80	1.82	89	59	11:55A	8:40P	.47	2.37	12:20P	.58		
6-4-38	5	5.807	1	11:40A	95	1.05	3.00	2.80	1.82	89	59			0					
6-4-38	6	5.323	1	11:40A	95	1.05	3.00	2.80	1.82	89	59	Runoff chart		.22	not available		.73		Total from station annual report
6-8-38	1	11.530	1	No chart		.09	No chart			87	62			0					
6-8-38	2	9.386	1	No chart		.09	No chart			87	62			0					
6-8-38	3	10.711	1	No chart		.09	No chart			87	62			0					
6-8-38	5	5.807	1	No chart		.09	No chart			87	62			0					
6-8-38	6	5.323	1	No chart		.09	No chart			87	62			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project. Sour, Texas

Month June, 1938

Sheet 96 of 99 sheets

Date	Watershed		Rainfall							Temperature (Degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-9-38	1	11.530	1	No chart		.06	No chart			92	62			0					
6-9-38	2	9.386	1	No chart		.06	No chart			92	62			0					
6-9-38	3	10.711	1	No chart		.06	No chart			92	62			0					
6-9-38	5	5.807	1	No chart		.06	No chart			92	62			0					
6-9-38	6	5.323	1	No chart		.06	No chart			92	62			0					
6-12-38	1	11.530	1	8:30P	30	.43	1.68	1.28	.86	89	60			0					
6-12-38	2	9.386	1	8:30P	30	.43	1.68	1.28	.86	89	60			0					
6-12-38	3	10.711	1	8:30P	30	.43	1.68	1.28	.86	89	60			0					
6-12-38	5	5.807	1	8:30P	30	.43	1.68	1.28	.86	89	60			0					
6-12-38	6	5.323	1	8:30P	30	.43	1.68	1.28	.86	89	60			0					
6-16-38	1	11.530	1	No chart		.10	No chart			88	63			0					
6-16-38	2	9.386	1	No chart		.10	No chart			88	63			0					
6-16-38	3	10.711	1	No chart		.10	No chart			88	63			0					
6-16-38	5	5.807	1	No chart		.10	No chart			88	63			0					
6-16-38	6	5.323	1	No chart		.10	No chart			88	63			0					
6-22-38	1	11.530	1	No chart		.05	No chart			96	65			0					
6-22-38	2	9.386	1	No chart		.05	No chart			96	65			0					
6-22-38	3	10.711	1	No chart		.05	No chart			96	65			0					
6-22-38	5	5.807	1	No chart		.05	No chart			96	65			0					
6-22-38	6	5.323	1	No chart		.06	No chart			96	65			0					
6-24-38	1	11.530	1	2:35P	275	1.01	3.36	1.56	.84	90	68	6:10P							
6-24-38	1	11.530	1	7:50P	250	.25	.24	.20	.12	90	68								
6-25-38	1	11.530	1	12:00M	430	1.44	1.00	.44	.44	85	68								
6-25-38	1	11.530	1	8:00A	220	.09	VL	VL	VL	85	68								
6-25-38	1	11.530	1	7:30P	100	.59	1.08	1.00	.82	85	68		11:20A	1.49	2.86	6:35P	1.89		
6-24-38	2	9.386	1	2:35P	275	1.01	3.36	1.56	.84	90	68	4:05P							
6-24-38	2	9.386	1	7:50P	250	.25	.24	.20	.12	90	68								
6-25-38	2	9.386	1	12:00M	430	1.44	1.00	.44	.44	85	68								
6-25-38	2	9.386	1	8:00A	220	.09	VL	VL	VL	85	68								
6-25-38	2	9.386	1	7:30P	100	.59	1.08	1.00	.82	85	68		7:20P	1.58	3.72	4:50P	1.80		
6-24-38	3	10.711	1	2:35P	275	1.01	3.36	1.56	.84	90	68	4:20P			3.72	8:10P			
6-24-38	3	10.711	1	7:50P	250	.25	.24	.20	.12	90	68								
6-25-38	3	10.711	1	12:00M	430	1.44	1.00	.44	.44	85	68								
6-25-38	3	10.711	1	8:00A	220	.09	VL	VL	VL	85	68								
6-25-38	3	10.711	1	7:30P	100	.59	1.08	1.00	.82	85	68		3:50P	1.80			1.58		
6-24-38	5	5.807	1	2:35P	275	1.01	3.36	1.56	.84	90	68	4:35P			.93	5:10P			
6-24-38	5	5.807	1	7:50P	250	.25	.24	.20	.12	90	68								
6-25-38	5	5.807	1	12:00M	430	1.44	1.00	.44	.44	85	68								
6-25-38	5	5.807	1	8:00A	220	.09	VL	VL	VL	85	68								
6-25-38	6	5.807	1	7:30P	100	.59	1.08	1.00	.82	85	68		1:00P	.45			2.93		
6-24-38	6	5.323	1	2:35P	275	1.01	3.36	1.56	.84	90	68	4:55P							
6-24-38	6	5.323	1	7:50P	250	.25	.24	.20	.12	90	68								

Form 8. C. 8.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Month June, July, 1938

Sheet 97 of 99 sheets

Date	Watershed		Rainfall							Temperature (degrees F.)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft sec	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
6-25-38	6	5.323	1	12:00M	430	1.44	1.00	.44	.44	85	68				2.51	5:25A			
6-25-38	6	5.323	1	8:00A	220	.09	VL	VL	VL	85	68								
6-25-38	6	5.323	1	7:30P	100	.59	1.08	1.00	.82	85	68		11:00P	1.03			2.35		
7-15-38	1	11.530	1	2:10A	5	.04	.48			93	69			0					
7-15-38	1	11.530	1	8:35A	15	.58	1.92			93	69			0					
7-15-38	2	9.386	1	2:10A	5	.04	.48			93	69			0					
7-15-38	2	9.386	1	8:35A	15	.58	1.92			93	69			0					
7-15-38	3	10.711	1	2:10A	5	.04	.48			93	69			0					
7-15-38	3	10.711	1	8:35A	15	.58	1.92			93	69			0					
7-15-38	5	5.807	1	2:10A	5	.04	.48			93	69			0					
7-15-38	5	5.807	1	8:35A	15	.58	1.92			93	69			0					
7-15-38	6	5.323	1	2:10A	5	.04	.48			93	69			0					
7-15-38	6	5.323	1	8:35A	15	.58	1.92			93	69			0					
7-17-38	1	11.530	1	3:25A	40	.47	1.20	.72	.40	91	70			0					
7-17-38	2	9.386	1	3:25A	40	.47	1.20	.72	.40	91	70			0					
7-17-38	3	10.711	1	3:25A	40	.47	1.20	.72	.40	91	70			0					
7-17-38	5	5.807	1	3:25A	40	.47	1.20	.72	.40	91	70			0					
7-17-38	6	5.323	1	3:25A	40	.47	1.20	.72	.40	91	70			0					
7-21-38	1	11.530	1	4:40P	45	1.64	3.72	3.20	2.92	89	64								
7-22-38	1	11.530	1	1:13A	77	.16	.24	VL	VL	79	66	Runoff chart		.50	not available		1.30		Total taken from station annual report
7-21-38	2	9.386	1	4:40P	45	1.64	3.72	3.20	2.92	89	64								
7-22-38	2	9.386	1	1:13A	77	.16	.24	VL	VL	79	66	Runoff chart		.95	not available		.85		Total taken from station annual report
7-21-38	3	10.711	1	4:40P	45	1.64	3.72	3.20	2.92	89	64	5:20P							
7-22-38	3	10.711	1	1:13A	77	.16	.24	VL	VL	79	66		8:50P	.71	6.88	5:50P	1.09		
7-21-38	5	5.807	1	4:40P	45	1.64	3.72	3.20	2.92	89	64	5:00P							
7-22-38	5	5.807	1	1:13A	77	.16	.24	VL	VL	79	66		10:50P	.30	2.69	5:05P	1.50		
7-21-38	6	5.323	1	4:40P	45	1.64	3.72	3.20	2.92	89	64	5:10P							
7-22-38	6	5.323	1	1:13A	77	.16	.24	VL	VL	79	66		9:00P	.71	7.98	5:25P	1.09		
7-23-38	1	11.530	1	3:20P	10	.09	.48			77	64			0					
7-23-38	2	9.386	1	3:20P	10	.09	.48			77	64			0					
7-23-38	3	10.711	1	3:20P	10	.09	.48			77	64			0					
7-23-38	5	5.807	1	3:20P	10	.09	.48			77	64			0					
7-23-38	6	5.323	1	3:20P	10	.09	.48			77	64			0					
7-24-38	1	11.530	1	8:20A	175	.25	.72	.36	.20	79	66			0					
7-24-38	2	9.386	1	8:20A	175	.25	.72	.36	.20	79	66			0					
7-24-38	3	10.711	1	8:20A	175	.25	.72	.36	.20	79	66			0					
7-24-38	5	5.807	1	8:20A	175	.25	.72	.36	.20	79	66			0					
7-24-38	6	5.323	1	8:20A	175	.25	.72	.36	.20	79	66			0					
7-25-38	1	11.530	1	No chart		.02	No chart			78	68			0					
7-25-38	2	9.386	1	No chart		.02	No chart			78	68			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT Spur, Texas

MONTH July, Aug., Sept., Oct. 38

SHEET 98 OF 99 SHEETS

U. S. GOVERNMENT PRINTING OFFICE 8-12268

DATE	WATERSHED		RAINFALL				MAXIMUM INTENSITY			TEMPERATURE (degrees F.)		RUN-OFF			MAXIMUM RATE		RAINFALL MINUS RUN-OFF (inches)	SILT LOSS (tons per acre)	CONDITION OF WATERSHED
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu. ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
7-25-38	3	10.711	1	No chart		.02	No chart			78	68			0					
7-25-38	5	5.807	1	No chart		.02	No chart			78	68			0					
7-25-38	6	5.323	1	No chart		.02	No chart			78	68			0					
7-29-38	1	11.530	1	No chart		.05	No chart			94	70			0					
7-29-38	2	9.386	1	No chart		.05	No chart			94	70			0					
7-29-38	3	10.711	1	No chart		.05	No chart			94	70			0					
7-29-38	5	5.807	1	No chart		.05	No chart			94	70			0					
7-29-38	6	5.323	1	No chart		.05	No chart			94	70			0					
8-16-38	1	11.530	1	4:50P	45	.14	.72	.32	.20	101	76			0					
8-16-38	2	9.386	1	4:50P	45	.14	.72	.32	.20	101	76			0					
8-16-38	3	10.711	1	4:50P	45	.14	.72	.32	.20	101	76			0					
8-16-38	5	5.807	1	4:50P	45	.14	.72	.32	.20	101	76			0					
8-16-38	6	5.323	1	4:50P	45	.14	.72	.32	.20	101	76			0					
8-17-38	1	11.530	1	4:10A	10	.07	.48			97	64			0					
8-17-38	2	9.386	1	4:10A	10	.07	.48			97	64			0					
8-17-38	3	10.711	1	4:10A	10	.07	.48			97	64			0					
8-17-38	5	5.807	1	4:10A	10	.07	.48			97	64			0					
8-17-38	6	5.323	1	4:10A	10	.07	.48			97	64			0					
9-3-38	1	11.530	1	No chart		.03	No chart			90	67			0					
9-3-38	2	9.386	1	No chart		.03	No chart			90	67			0					
9-3-38	3	10.711	1	No chart		.03	No chart			90	67			0					
9-3-38	5	5.807	1	No chart		.03	No chart			90	67			0					
9-3-38	6	5.323	1	No chart		.03	No chart			90	67			0					
9-13-38	1	11.530	1	No chart		.06	No chart			96	70			0					
9-13-38	2	9.386	1	No chart		.06	No chart			96	70			0					
9-13-38	3	10.711	1	No chart		.06	No chart			96	70			0					
9-13-38	5	5.807	1	No chart		.06	No chart			96	70			0					
9-13-38	6	5.323	1	No chart		.06	No chart			96	70			0					
10-10-38	1	11.530	1	8:05A	20	.28	1.44	1.04		84	52			0					
10-10-38	1	11.530	1	11:50A	315	1.05	1.68	1.00	.60	84	52			0					
10-10-38	2	9.386	1	8:05A	20	.28	1.44	1.04		84	52			0					
10-10-38	2	9.386	1	11:50A	315	1.05	1.68	1.00	.60	84	52			0					
10-10-38	3	10.711	1	8:05A	20	.28	1.44	1.04		84	52			0					
10-10-38	3	10.711	1	11:50A	315	1.05	1.68	1.00	.60	84	52			0					
10-10-38	5	5.807	1	8:05A	20	.28	1.44	1.04		84	52			0					
10-10-38	5	5.807	1	11:50A	315	1.05	1.68	1.00	.60	84	52			0					
10-10-38	6	5.323	1	8:05A	20	.28	1.44	1.04		84	52			0					
10-10-38	6	5.323	1	11:50A	315	1.05	1.68	1.00	.60	84	52			0					

Form S. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSERVATION SERVICE
DIVISION OF RESEARCH

Month November, December, 1938

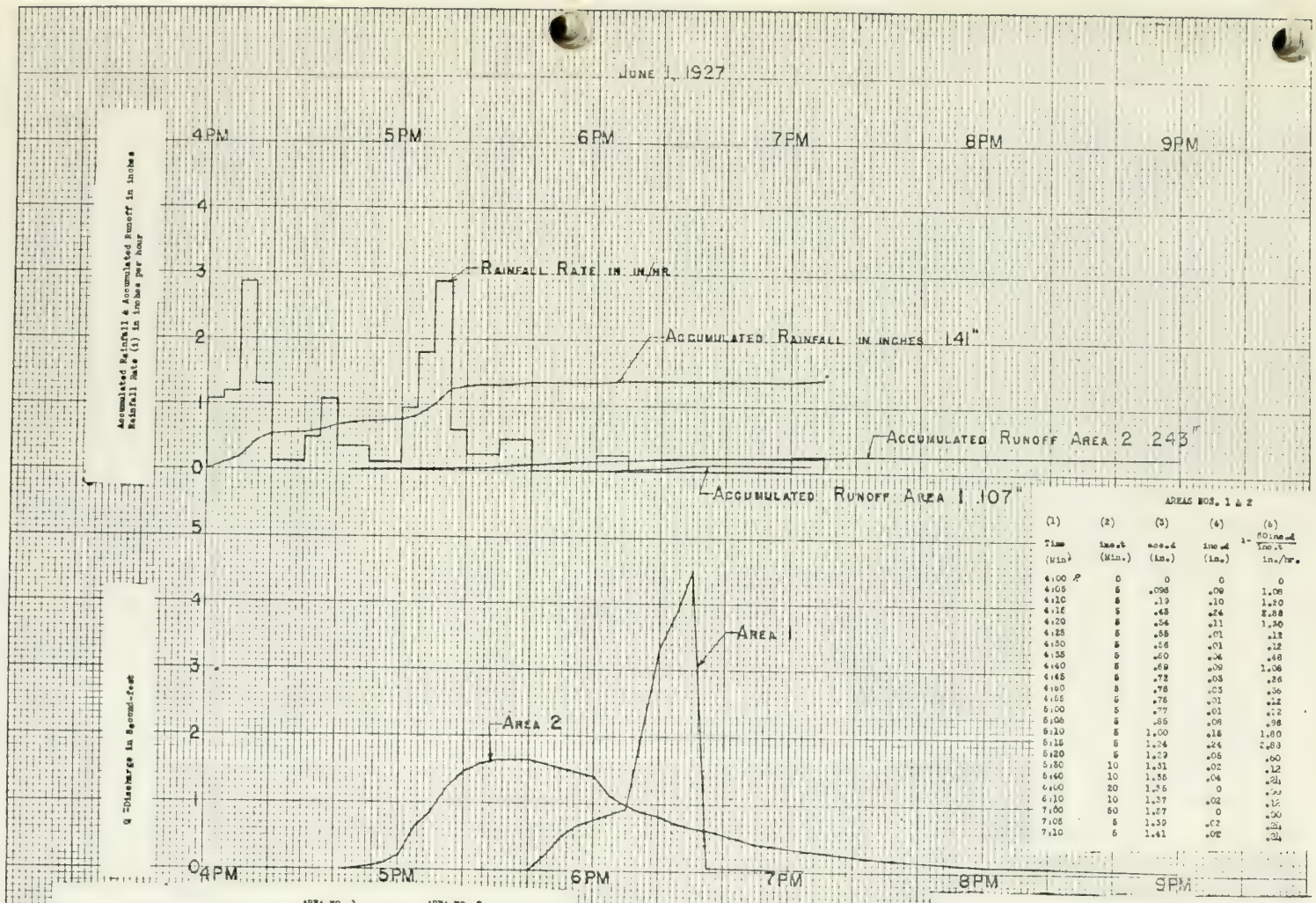
RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Project Spur, Texas

Sheet 99 of 99 sheets

U. S. GOVERNMENT PRINTING OFFICE 8—12345

Date	Watershed		Rainfall							Temperature (degrees F)		Run-off					Rainfall Minus Run-off (inches)	Silt Loss (tons per acre)	Condition of Watershed
							Maximum Intensity								Maximum Rate				
	Number	Area (acres)	Gage No.	Began (hour)	Duration (minutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (inches per hour)	Maximum	Minimum	Began (hour)	Ended (hour)	Amount (inches)	Cu ft. sec.	Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
11-1-38	1	11.530	1	No chart		.03	No chart			85	57			0					
11-1-38	2	9.386	1	No chart		.03	No chart			85	57			0					
11-1-38	3	10.711	1	No chart		.03	No chart			85	57			0					
11-1-38	5	5.807	1	No chart		.03	No chart			85	57			0					
11-1-38	6	5.323	1	No chart		.03	No chart			85	57			0					
11-3-38	1	11.530	1	6:35P	5	.06	.72			78	49			0					
11-3-38	1	11.530	1	8:30P	155	.59	1.68	.72	.44	78	49			0					
11-3-38	2	9.386	1	6:35P	5	.06	.72			78	49			0					
11-3-38	2	9.386	1	8:30P	155	.59	1.68	.72	.44	78	49			0					
11-3-38	3	10.711	1	6:35P	5	.06	.72			78	49			0					
11-3-38	3	10.711	1	8:30P	155	.59	1.68	.72	.44	78	49			0					
11-3-38	5	5.807	1	6:35P	5	.06	.72			78	49			0					
11-3-38	5	5.807	1	8:30P	155	.59	1.68	.72	.44	78	49			0					
11-3-38	6	5.323	1	6:35P	5	.06	.72			78	49			0					
11-3-38	6	5.323	1	8:30P	155	.59	1.68	.72	.44	78	49			0					
11-7-38	1	11.530	1	No chart		.10	No chart			54	25			0					
11-7-38	2	9.386	1	No chart		.10	No chart			54	25			0					
11-7-38	3	10.711	1	No chart		.10	No chart			54	25			0					
11-7-38	5	5.807	1	No chart		.10	No chart			54	25			0					
11-7-38	6	5.323	1	No chart		.10	No chart			54	25			0					
12-25-38	1	11.530	1	No chart		.04	No chart			62	24			0					
12-25-38	2	9.386	1	No chart		.04	No chart			62	24			0					
12-25-38	3	10.711	1	No chart		.04	No chart			62	24			0					
12-25-38	5	5.807	1	No chart		.04	No chart			62	24			0					
12-25-38	6	5.323	1	No chart		.04	No chart			62	24			0					



AREAS NOS. 1 & 2

(1) Time (Min)	(2) Inc. t (Min.)	(3) acc. d (in.)	(4) Inc. d (in.)	(5) $1-\frac{60\,\text{Inc. d}}{\text{Inc. t}}$ in./hr.
4:00 P	0	0	0	0
4:05	5	.098	.09	1.08
4:10	5	.19	.10	1.20
4:15	5	.43	.24	2.88
4:20	5	.54	.11	1.32
4:25	5	.55	.01	.12
4:30	5	.56	.01	.12
4:35	5	.60	.04	.48
4:40	5	.69	.09	1.08
4:45	5	.72	.03	.36
4:50	5	.76	.05	.60
4:55	5	.78	.01	.12
5:00	5	.77	.01	.12
5:05	5	.85	.08	.96
5:10	5	1.00	.15	1.80
5:15	5	1.24	.24	2.88
5:20	5	1.29	.05	.60
5:30	10	1.31	.02	.12
5:40	10	1.35	.04	.24
6:00	20	1.35	0	.00
6:10	10	1.37	.02	.12
7:00	50	1.37	0	.00
7:05	5	1.39	.02	.24
7:10	5	1.41	.02	.24

	AREA NO. 1	AREA NO. 2
Area (acres)	11.550	9.386
Preceding rain (ins.)	.16 ins.	.14 ins
date began	5-24-27	5-24-27
duration (hours)	20 min.	20 min
Temperature (Max & Min.)	101-57	101-57
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft.)	1 to 2 ins.	1 to 2 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows with slope

SPUR, TEXAS

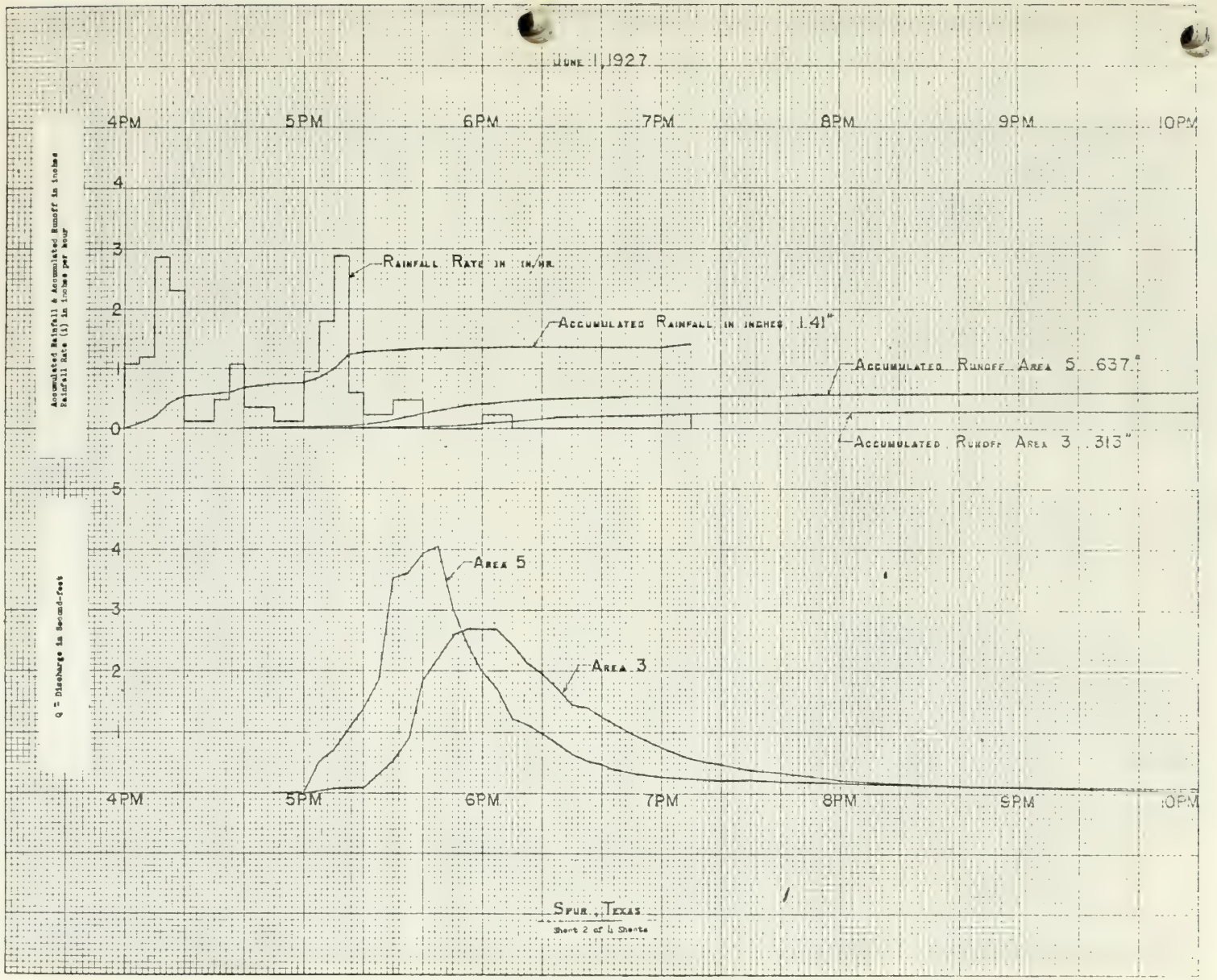
Sheet 1 of 4 Sheets

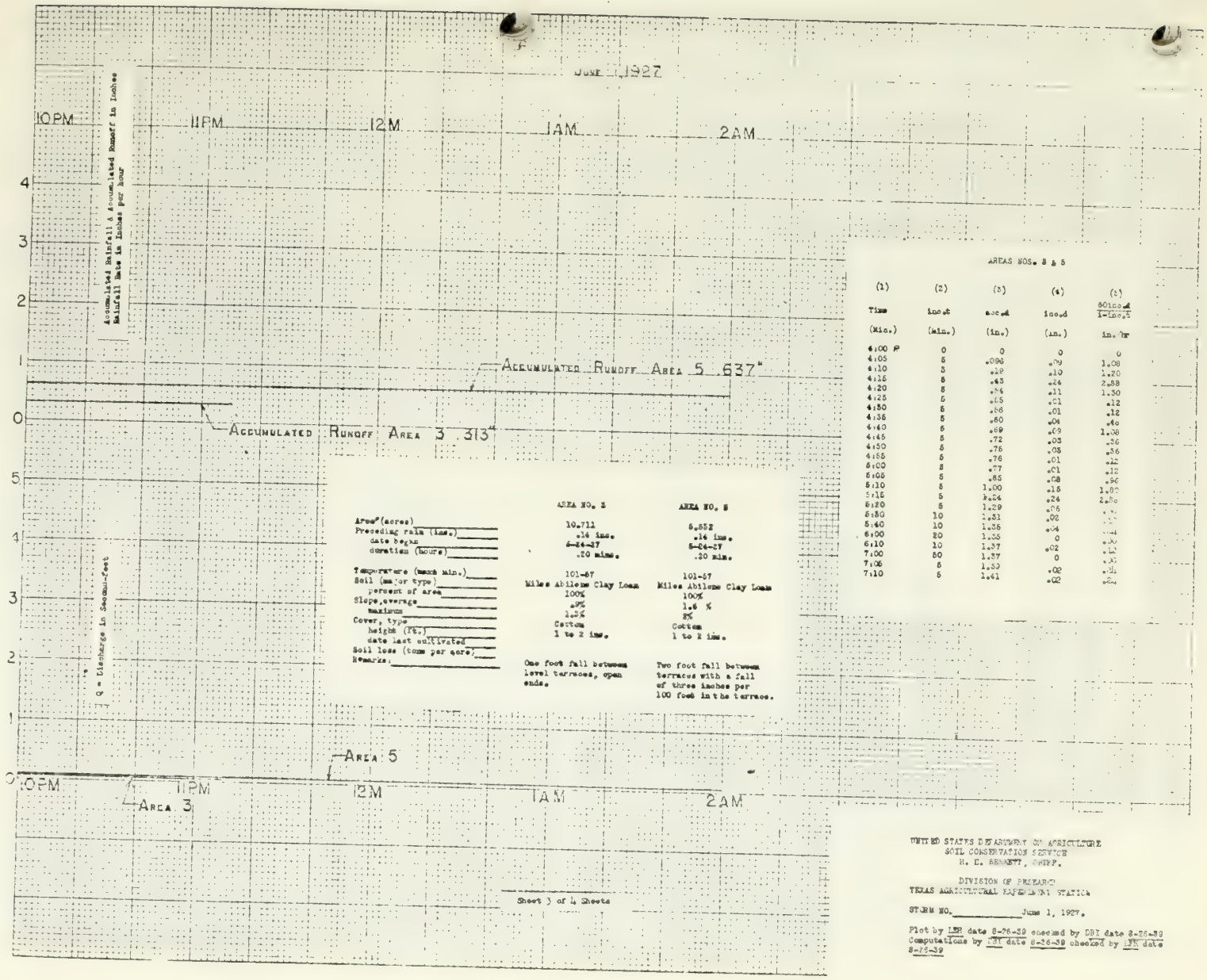
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H.H. BENNETT, CHIEF

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

STORM NO. _____ JUNE 1, 1927

Plot by LEH date 8-26-39 checked by DBI date 8-28-39
Computations by DBI date 8-27-39 checked by LEH date 8-26-39


June 1, 1927
4PM
5PM
6PM
7PM
8PM
9PM
10PM
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
Rainfall Rate in in./hr.
Accumulated Rainfall in inches 1.41"
Accumulated Runoff Area 5 .637"
Accumulated Runoff Area 3 .313"
Q = Discharge in Second-feet
Area 5
Area 3
Spur, Texas
Sheet 2 of 4 Sheets



AREAS NOS. 3 & 5

(1) Time (Min.)	(2) Incr. (min.)	(3) Accum. (in.)	(4) Incr. (in.)	(5) Solved I-Inc. I in./hr
4:00 P	0	0	0	0
4:05	5	.096	.09	1.08
4:10	5	.19	.10	1.20
4:15	5	.43	.24	2.88
4:20	5	.54	.11	1.32
4:25	5	.65	.11	1.32
4:30	5	.66	.01	.12
4:35	5	.80	.04	.48
4:40	5	.89	.09	1.08
4:45	5	.72	.03	.36
4:50	5	.76	.03	.36
4:55	5	.76	.01	.12
5:00	5	.77	.01	.12
5:05	5	.85	.08	.96
5:10	5	1.00	.15	1.80
5:15	5	1.24	.24	2.88
5:20	5	1.29	.05	.60
5:30	10	1.31	.02	.12
5:40	10	1.35	.04	.24
6:00	20	1.35	0	.00
6:10	10	1.37	.02	.12
7:00	50	1.37	0	.00
7:05	5	1.39	.02	.24
7:10	5	1.41	.02	.24

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

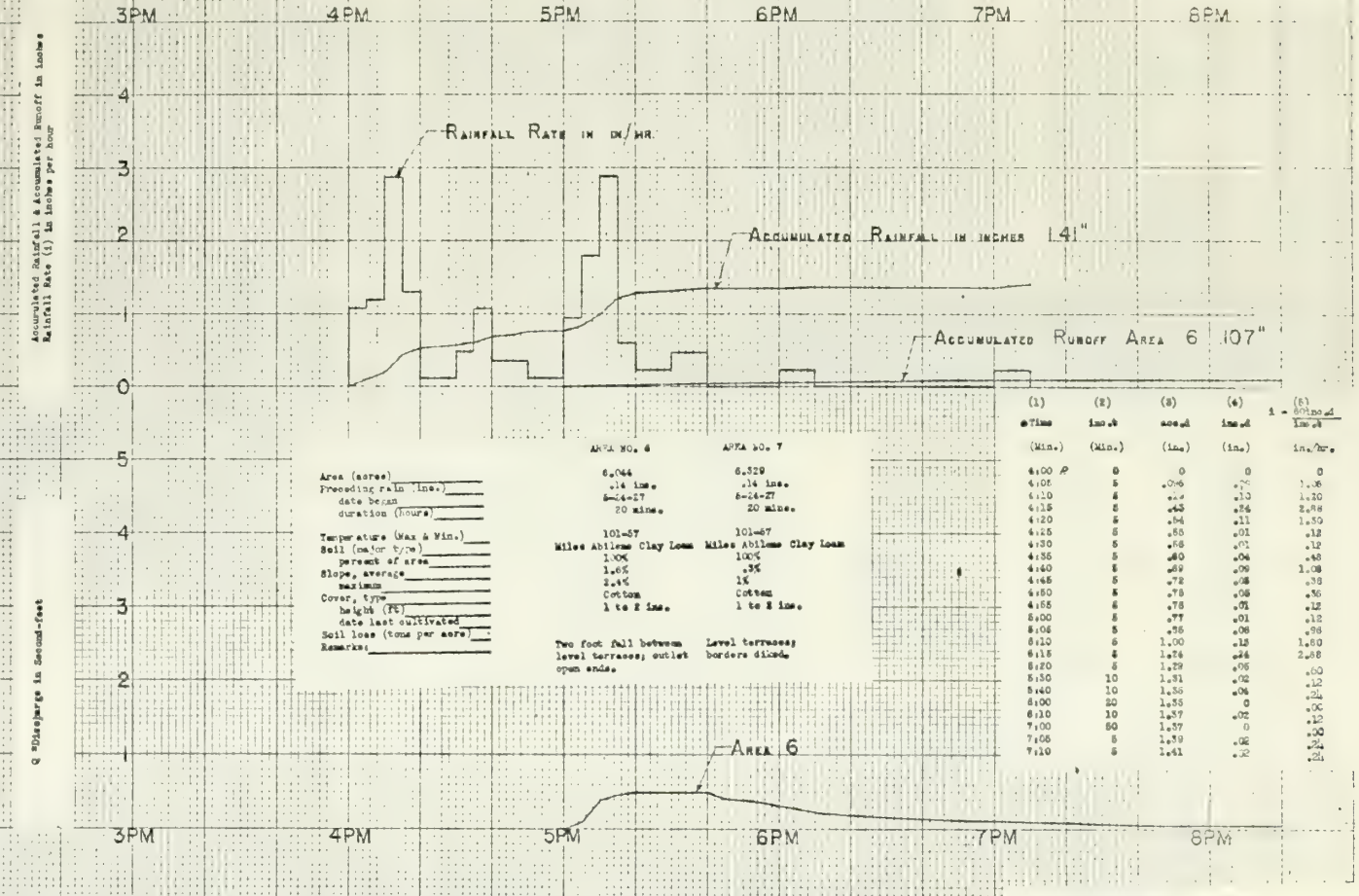
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. June 1, 1927.

Plot by LEH date 8-26-39 checked by DBI date 8-28-39
Computations by LEH date 8-26-39 checked by JN date 8-28-39

Sheet 3 of 4 Sheets

June 1, 1927



	Area No. 6	Area No. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.14 ins.	.14 ins.
date began	5-24-27	5-26-27
duration (hours)	20 mins.	20 mins.
Temperature (Max & Min.)		
Soil (major type)	101-57 Miles Abilene Clay Loam	101-57 Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.3%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (ft)	1 to 2 ins.	1 to 2 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks	Two foot fall between level terraces; outlet open ends.	Level terraces; borders diked.

(1) Time	(2) ins.h	(3) acs.d	(4) ins.d	(5) $i - \frac{6(4)}{(1)}$ ins.h
	(Min.)	(Min.)	(ins.)	(ins.)	ins./hr.
4:00 P	0	0	0	0	0
4:05	5	.046	.008	1.36
4:10	5	.444	.110	1.20
4:15	5	.63	.24	2.88
4:20	5	.94	.11	1.59
4:25	5	.85	.01	.12
4:30	5	.86	.01	.12
4:35	5	.80	.04	.48
4:40	5	.89	.09	1.08
4:45	5	.72	.08	.96
4:50	5	.78	.06	.36
4:55	5	.78	.01	.12
5:00	5	.77	.01	.12
5:05	5	.75	.08	.96
5:10	5	1.00	.12	1.60
5:15	5	1.24	.24	2.88
5:20	5	1.29	.05	.60
5:30	10	1.31	.02	.12
5:40	10	1.35	.04	.24
5:00	20	1.35	0	.00
6:10	10	1.37	.02	.12
7:00	50	1.37	0	.00
7:05	5	1.39	.02	.24
7:10	5	1.41	.02	.24

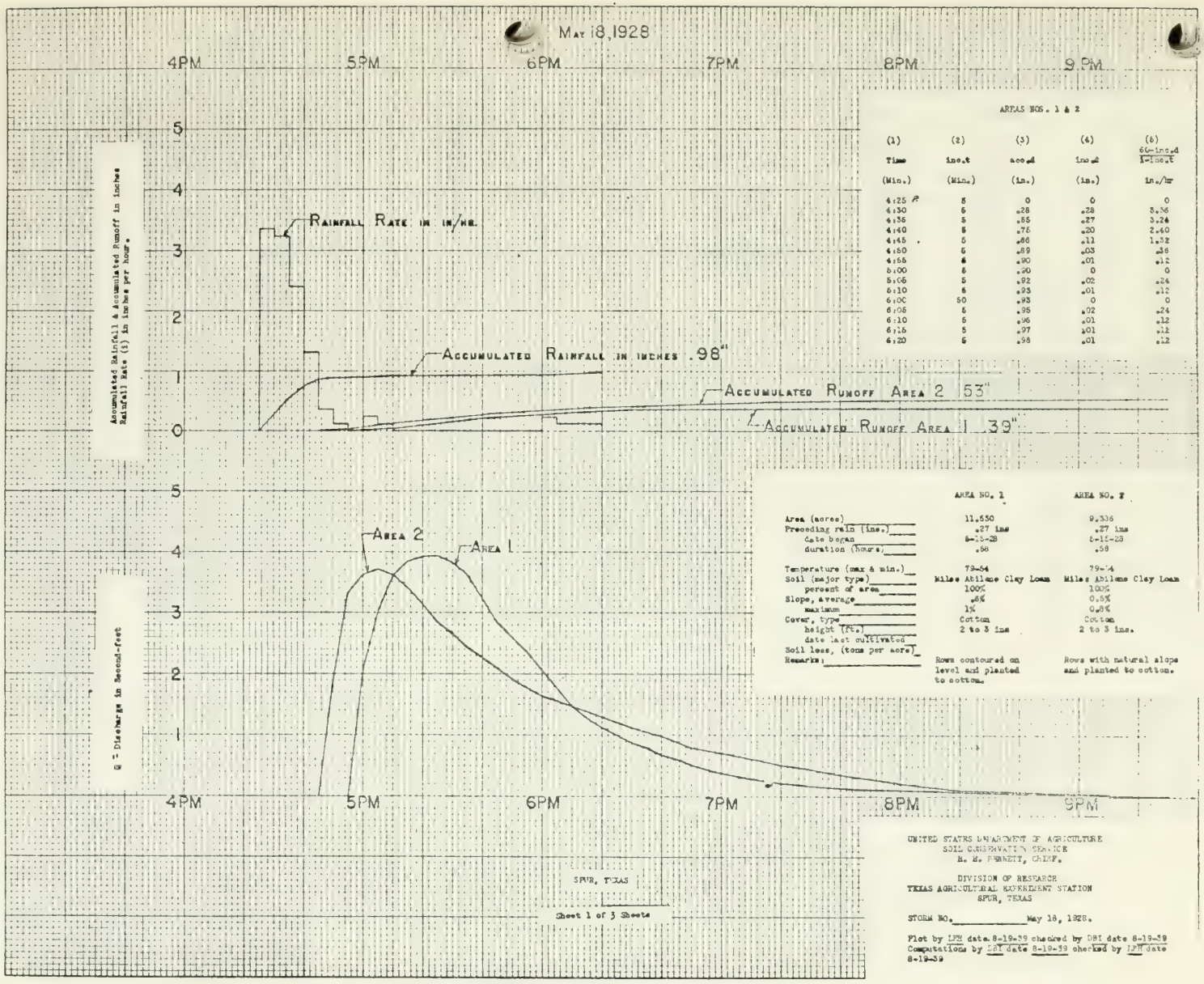
Sheet 4 of 4 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. June 1, 1927.

Plot by LNH date 8-26-39 checked by DEI date 8-26-39.
Computations by DEI date 8-26-39 checked by LNH date 8-26-39.



AREAS NOS. 1 & 2

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) 60-inc.d I-inc.t
(Min.)	(Min.)	(in.)	(in.)	in./hr
4:25 P	5	0	0	0
4:30	5	.28	.28	3.36
4:35	5	.55	.27	3.24
4:40	5	.76	.20	2.40
4:45	5	.88	.11	1.32
4:50	5	.89	.03	.36
4:55	5	.90	.01	.12
5:00	5	.90	0	0
5:05	5	.92	.02	.24
5:10	5	.93	.01	.12
6:00	50	.93	0	0
6:05	5	.95	.02	.24
6:10	5	.96	.01	.12
6:15	5	.97	.01	.12
6:20	5	.98	.01	.12

	AREA NO. 1	AREA NO. 2
Area (acres)	11.550	9.336
Preceding rain (ins.)	.27 ins	.27 ins
date began	5-16-28	5-16-28
duration (hours)	.86	.58
Temperature (max & min.)	79-54	79-54
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	0.5%
maximum	1%	0.8%
Cover, type	Cotton	Cotton
height (ft.)	2 to 3 ins	2 to 3 ins.
date last cultivated		
Soil loss, (tons per acre)		
Remarks:	Rows contoured on level and planted to cotton.	Rows with natural slope and planted to cotton.

SPUR, TEXAS

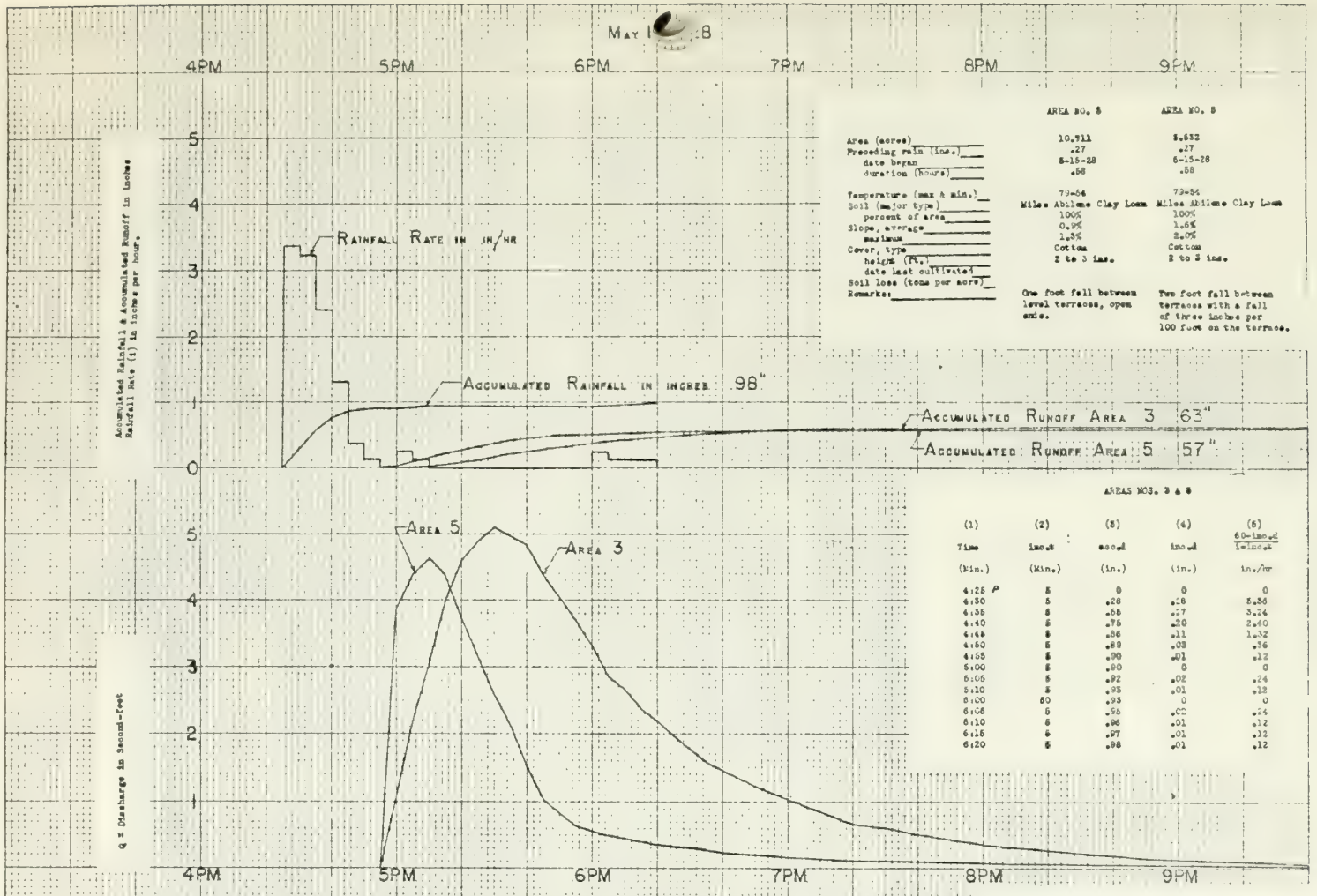
Sheet 1 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

STORM NO. _____ May 18, 1928.

Plot by LFE date 8-19-39 checked by DBI date 8-19-39
Computations by LFE date 8-19-39 checked by LFE date 8-19-39



	AREA NO. 5	AREA NO. 3
Area (acres)	10.911	5.632
Preceding rain (ins.)	.27	.27
date began	5-15-28	6-15-28
duration (hours)	.58	.58
Temperature (max & min.)	79-54	79-54
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	0.9%	1.6%
maximum	1.5%	2.0%
Cover, type	Cotton	Cotton
height (Ft.)	2 to 3 ins.	2 to 3 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces, open ends.	Two foot fall between terraces with a fall of three inches per 100 foot on the terrace.

AREAS NOS. 3 & 5

(1) Time (Min.)	(2) Incs. (Min.)	(3) accd (in.)	(4) incd (in.)	(5) 60-incd / I-incs (in./hr)
4:25 P	5	0	0	0
4:30	5	.28	.28	5.36
4:35	5	.55	.27	3.24
4:40	5	.75	.20	2.40
4:45	5	.86	.11	1.32
4:50	5	.89	.03	.36
4:55	5	.90	.01	.12
5:00	5	.90	0	0
5:06	5	.92	.02	.24
5:10	5	.93	.01	.12
5:00	50	.93	0	0
6:06	5	.95	.02	.24
6:10	5	.96	.01	.12
6:16	5	.97	.01	.12
6:20	5	.98	.01	.12

SPUR, TEXAS

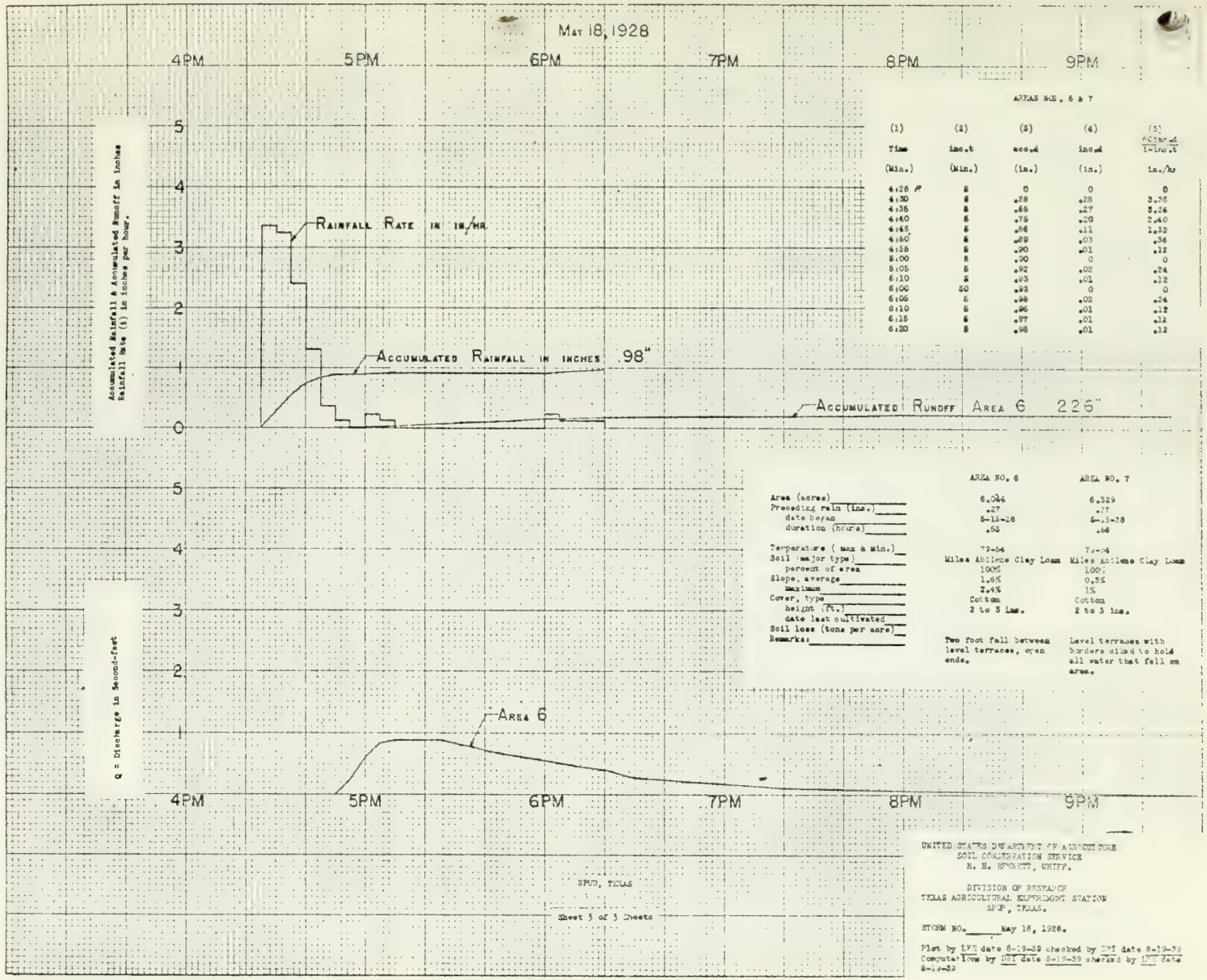
Sheet 2 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

STORM NO. _____ May 18, 1928.

Plot by LFH date 8-14-32 checked by LBI date 8-19-32
Computations by LFH date 8-19-32 checked by LFH date 8-19-32



AREAS NOS. 6 & 7

(1) Time (Min.)	(2) Inc.t (Min.)	(3) acc.d (in.)	(4) Inc.d (in.)	(5) 60 Inc.d / Inc.t in./hr
4:26 P	5	0	0	0
4:30	5	.28	.28	3.36
4:35	5	.55	.27	3.24
4:40	5	.76	.20	2.40
4:45	5	.86	.11	1.32
4:50	5	.89	.03	.36
4:55	5	.90	.01	.12
5:00	5	.90	0	0
5:05	5	.92	.02	.24
5:10	5	.93	.01	.12
5:00	60	.93	0	0
5:05	5	.95	.02	.24
5:10	5	.96	.01	.12
5:15	5	.97	.01	.12
5:20	5	.98	.01	.12

	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.27	.27
date began	5-15-28	5-15-28
duration (hours)	.58	.68
Temperature (max & min.)	72-56	71-54
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	0.5%
Maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (ft.)	2 to 3 ins.	2 to 3 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall Between level terraces, open ends.	Level terraces with borders diked to hold all water that fell on area.

SPUR, TEXAS

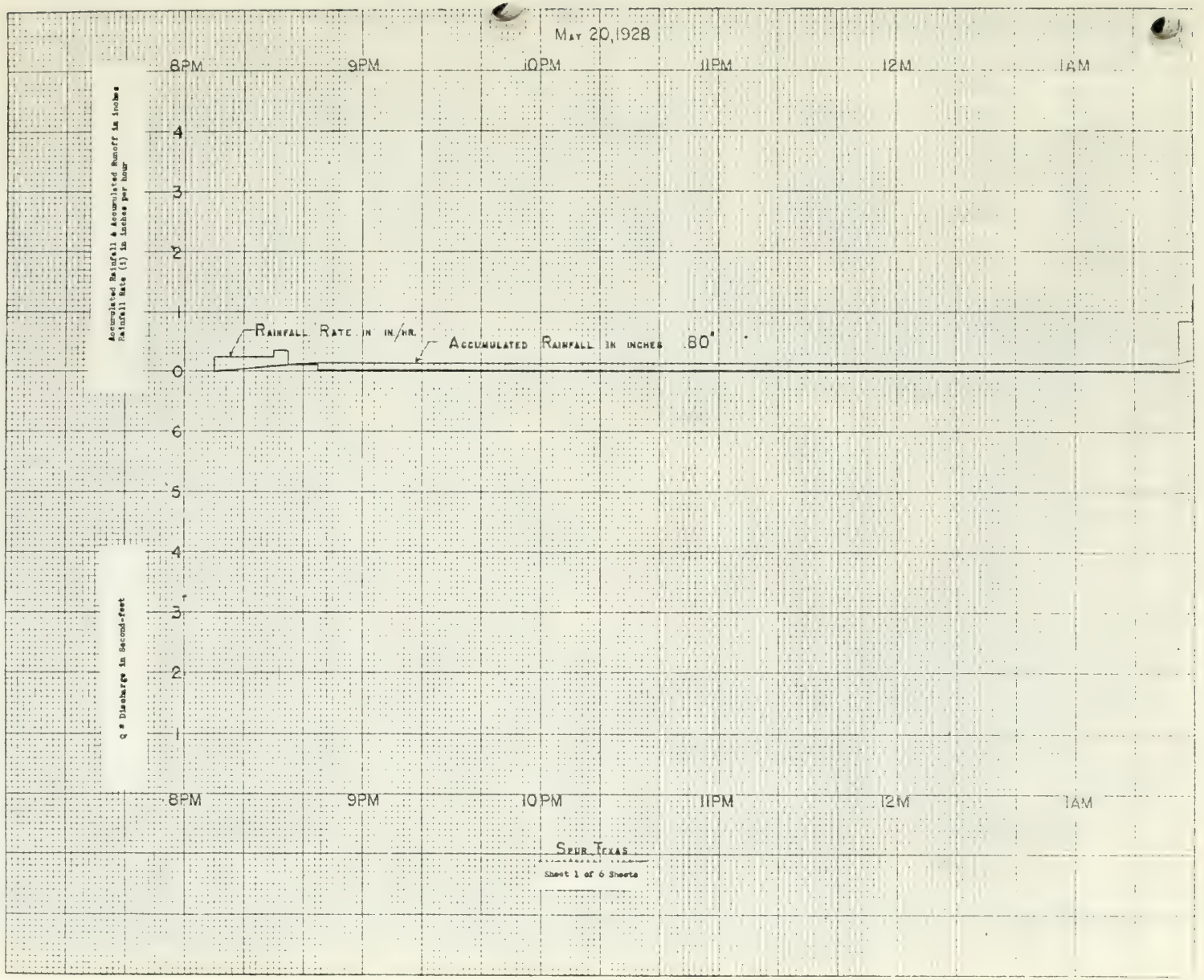
Sheet 3 of 3 Sheets

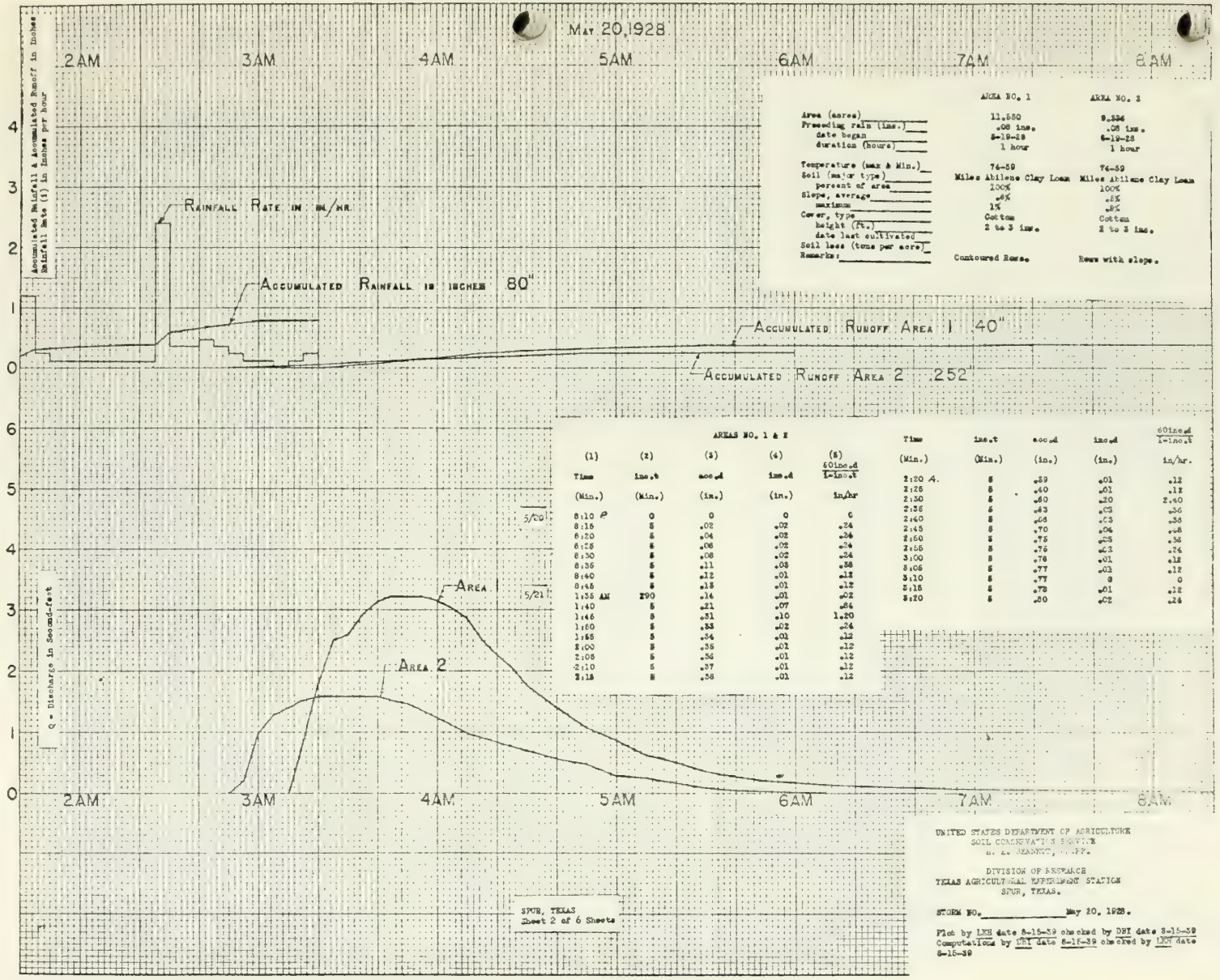
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. ____ May 18, 1928.

Plot by LWH date 8-19-39 checked by DBI date 8-19-39
Computations by DBI date 8-19-39 checked by LWH date 8-19-39


May 20, 1928
8PM
9PM
10PM
11PM
12M
1AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
4
3
2
1
0
Rainfall Rate in in/hr.
Accumulated Rainfall in Inches .80"
6
5
4
3
2
1
Q = Discharge in Second-feet
8PM
9PM
10PM
11PM
12M
1AM
Spur, Texas
Sheet 1 of 6 Sheets



	Area No. 1	Area No. 2
Area (acres)	11.580	9.336
Preceding rain (ins.)	.08 ins.	.08 ins.
date began	5-19-28	5-19-28
duration (hours)	1 hour	1 hour
Temperature (max & Min.)	74-59	74-59
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.4%	.5%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft.)	2 to 3 ins.	2 to 3 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows with slope.

AREAS NO. 1 & 2

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) 60ins.d / 1-ins.t
(Min.)	(Min.)	(in.)	(in.)	in/hr
8:10 P	0	0	0	0
8:15	5	.02	.02	.24
8:20	5	.04	.02	.24
8:25	5	.06	.02	.24
8:30	5	.08	.02	.24
8:35	5	.11	.03	.36
8:40	5	.12	.01	.12
8:45	5	.13	.01	.12
1:35 AM	290	.14	.01	.02
1:40	5	.21	.07	.84
1:45	5	.31	.10	1.20
1:50	5	.33	.02	.24
1:55	5	.34	.01	.12
2:00	5	.35	.01	.12
2:05	5	.36	.01	.12
2:10	5	.37	.01	.12
2:15	5	.38	.01	.12
2:20 A.	5	.39	.01	.12
2:25	5	.40	.01	.12
2:30	5	.60	.20	2.40
2:35	5	.63	.03	.36
2:40	5	.66	.03	.36
2:45	5	.70	.04	.48
2:50	5	.75	.05	.36
2:55	5	.76	.01	.24
3:00	5	.78	.01	.12
5:05	5	.77	.01	.12
5:10	5	.77	0	0
5:15	5	.78	.01	.12
5:20	5	.80	.02	.24

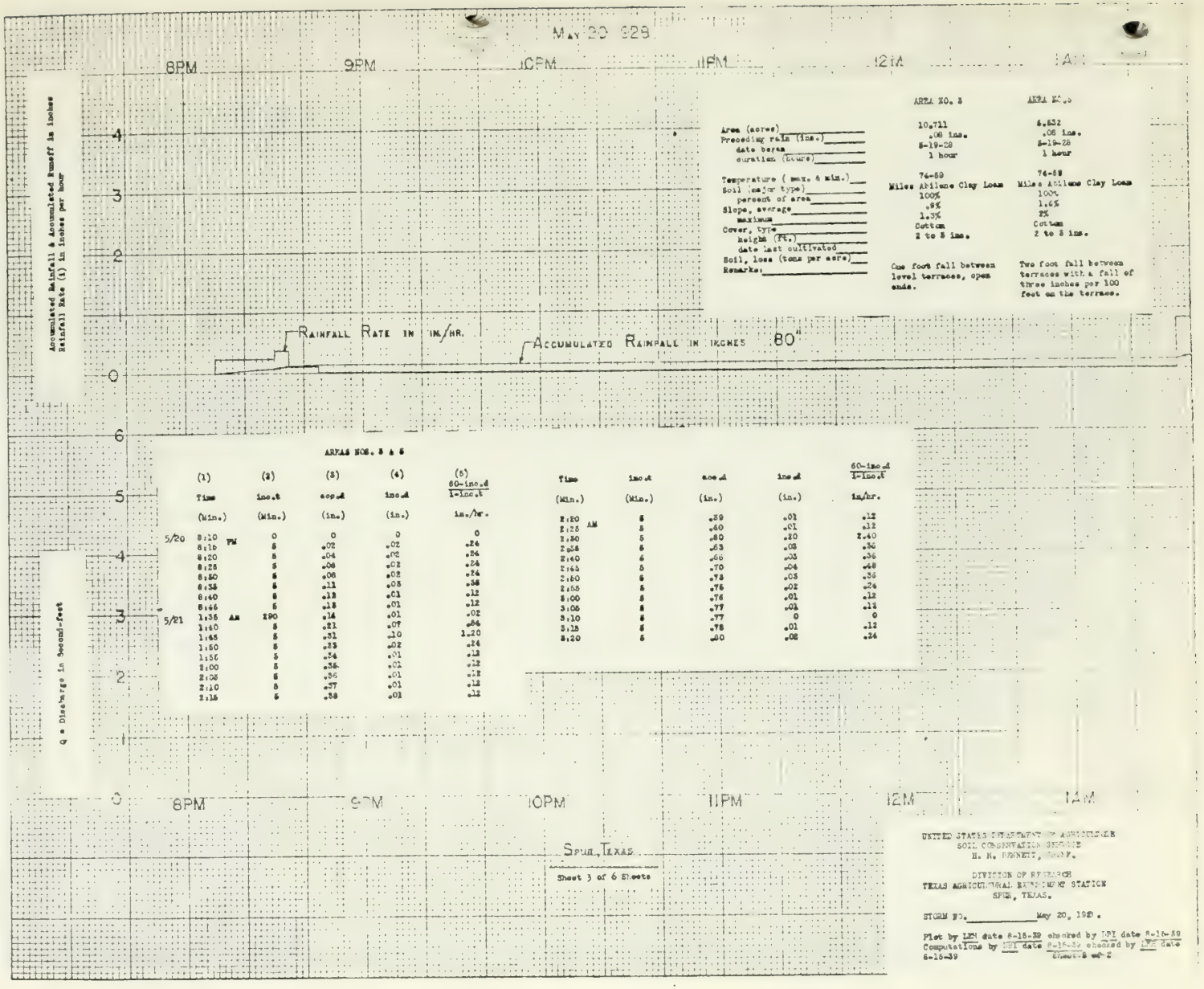
SPUR, TEXAS
Sheet 2 of 6 Sheets

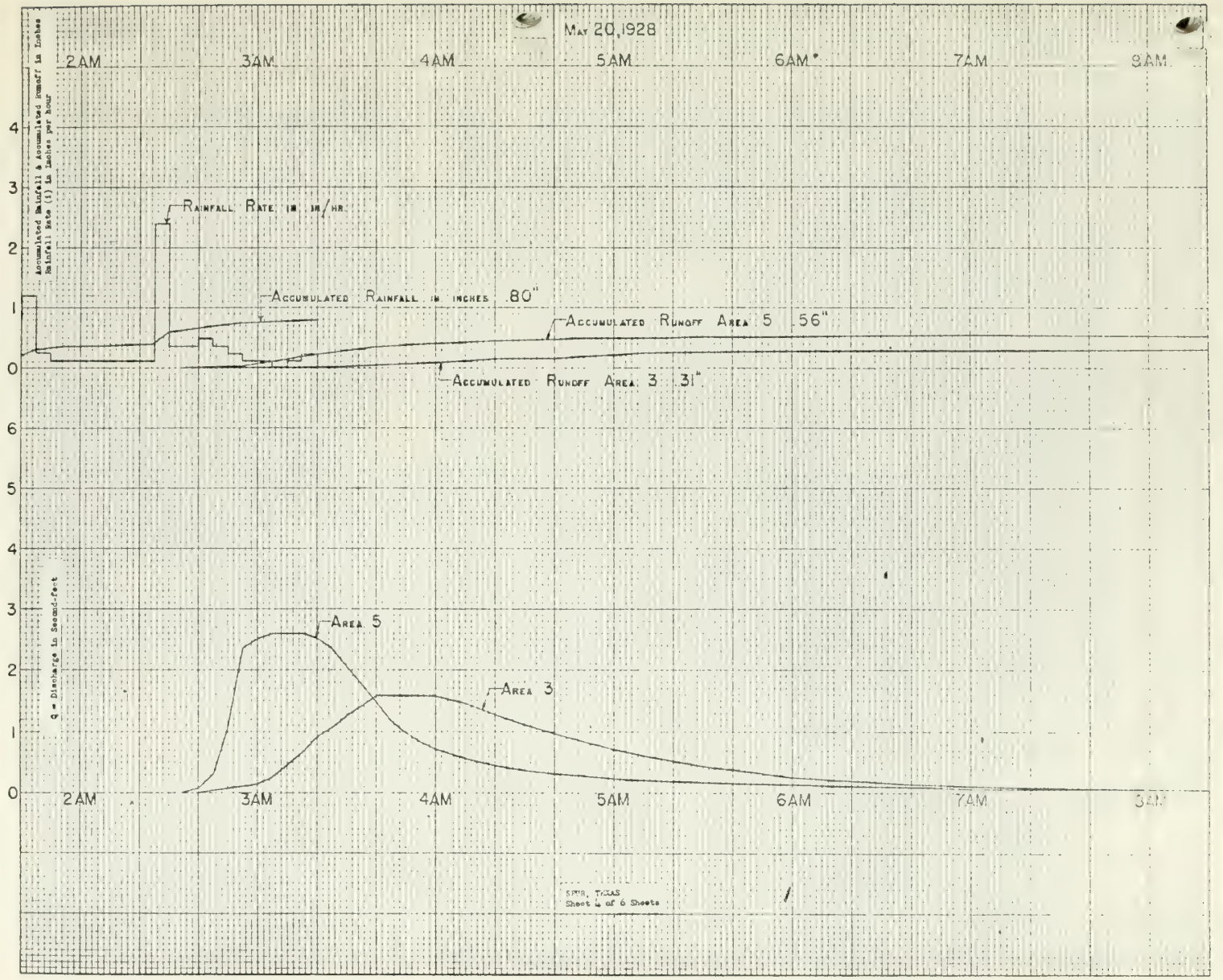
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

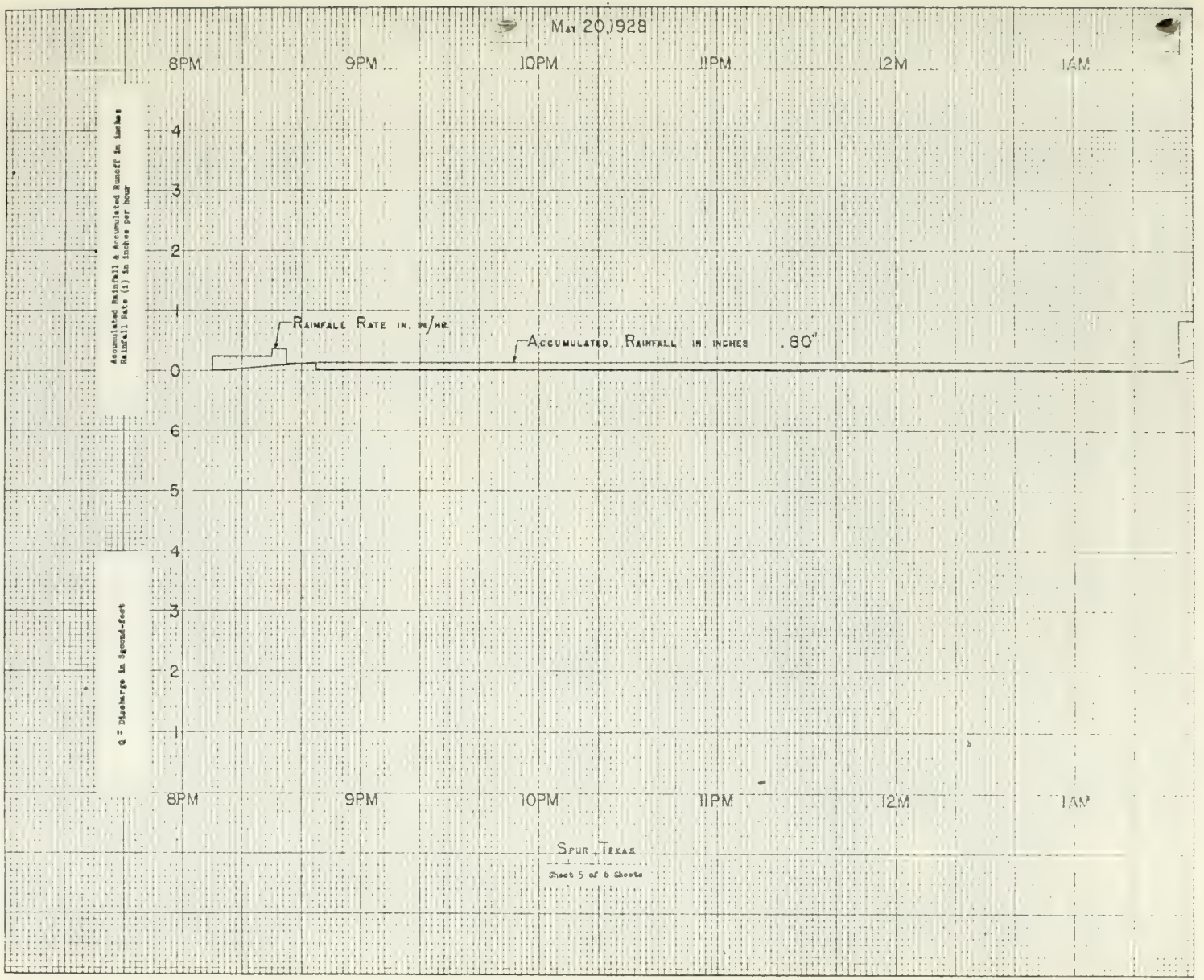
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

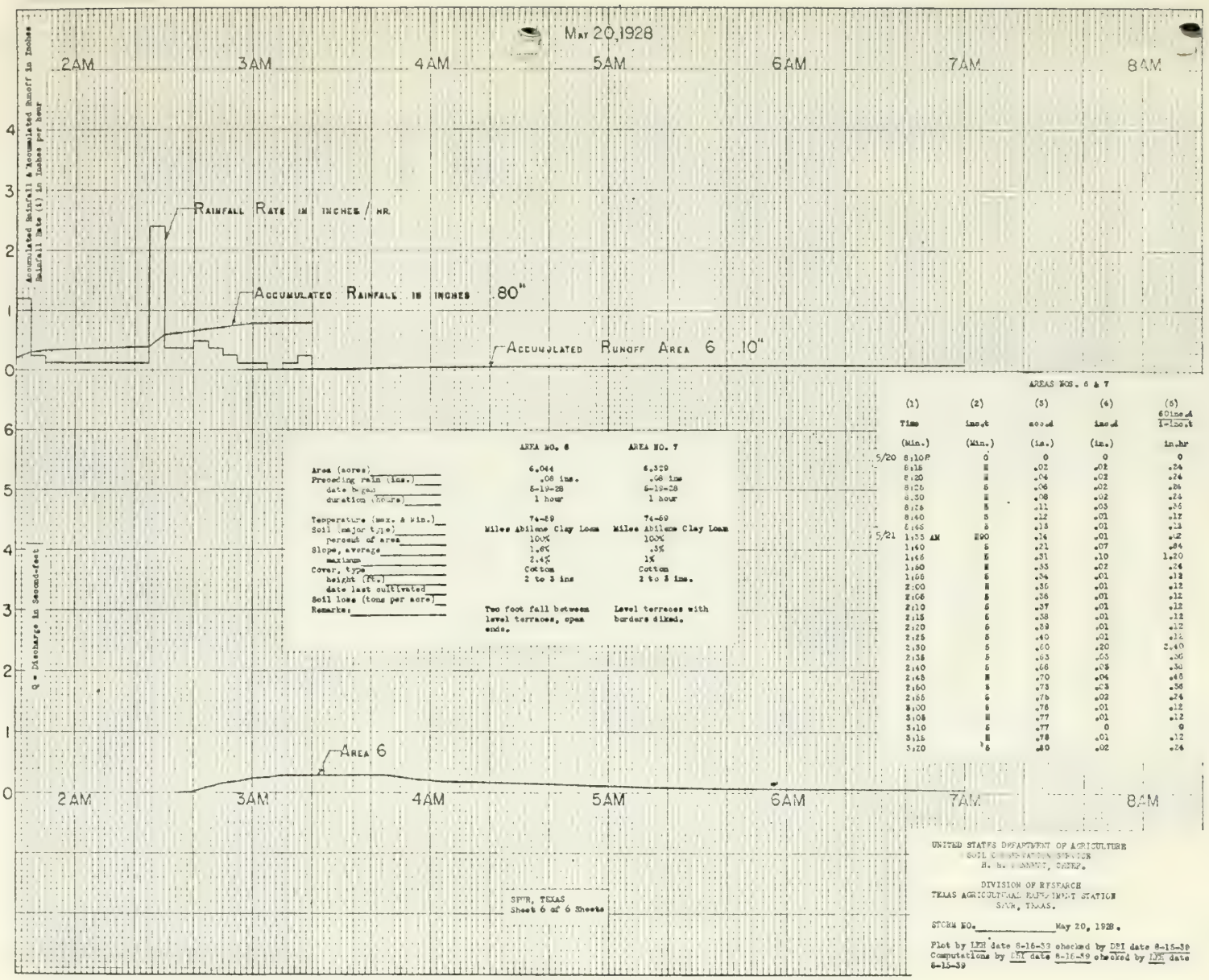
STORM NO. _____ May 20, 1928.

Plot by LEH date 8-15-39 checked by DEI date 8-15-39
Computations by DEI date 8-15-39 checked by LEH date 8-15-39


MAY 20 1929
8PM
9PM
10PM
11PM
12M
1AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
Q = Discharge in Second-Feet
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES
.80"
Area (acres)
Preceding rain (ins.)
date began
duration (hours)
Temperature (max. & min.)
Soil (major type)
percent of area
Slope, average
maximum
Cover, type
height (Ft.)
date last cultivated
Soil, loss (tons per acre)
Remarks:
AREA NO. 3
10.711
.06 ins.
5-19-29
1 hour
74-89
Miles Abilene Clay Loam
100%
.8%
1.3%
Cotton
2 to 3 ins.
One foot fall between level terraces, open ends.
AREA NO. 5
6.852
.06 Ins.
5-19-29
1 hour
74-89
Miles Abilene Clay Loam
100%
1.6%
2%
Cotton
2 to 3 ins.
Two foot fall between terraces with a fall of three inches per 100 foot on the terraces.
AREAS NOS. 3 & 5
(1) Time (Min.)
(2) inc.t (Min.)
(3) acc.d (in.)
(4) inc.d (in.)
(5) 60-inc.d / 1-inc.t in./hr.
5/20 8:10 PM 0 0 0 0
8:15 5 .02 .02 .24
8:20 5 .04 .02 .24
8:25 5 .06 .02 .24
8:30 5 .08 .02 .24
8:35 5 .11 .03 .36
8:40 5 .13 .01 .12
8:45 5 .15 .01 .12
5/21 1:35 AM 290 .14 .01 .02
1:40 5 .21 .07 .84
1:45 5 .31 .10 1.20
1:50 5 .33 .02 .24
1:55 5 .34 .01 .12
2:00 5 .35 .01 .12
2:05 5 .36 .01 .12
2:10 5 .37 .01 .12
2:15 5 .38 .01 .12
Time (Min.)
inc.t (Min.)
acc.d (in.)
inc.d (in.)
60-inc.d / 1-inc.t in./hr.
2:20 AM 5 .39 .01 .12
2:25 5 .40 .01 .12
2:30 5 .40 .00 .00
2:35 5 .63 .03 .36
2:40 5 .66 .03 .36
2:45 5 .70 .04 .48
2:50 5 .73 .03 .36
2:55 5 .75 .02 .24
3:00 5 .76 .01 .12
3:05 5 .77 .01 .12
3:10 5 .77 0 0
3:15 5 .78 .01 .12
3:20 5 .80 .02 .24
8PM
9PM
10PM
11PM
12M
1AM
SPUR, TEXAS
Sheet 3 of 6 Sheets
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, Chief
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.
STORM NO. May 20, 1929.
Plot by LEH date 6-18-39 checked by LDI date 6-14-39
Computations by LDI date 6-14-39 checked by LEH date 6-18-39
Sheet 3 of 6 Sheets


May 20, 1928
2AM
3AM
4AM
5AM
6AM
7AM
8AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per Hour
Rainfall Rate (I) in In/Hr
Accumulated Rainfall in Inches .80"
Accumulated Runoff Area 5 .56"
Accumulated Runoff Area 3 .31"
q = Discharge in Second-feet
Area 5
Area 3
4
3
2
1
0
6
5
4
3
2
1
0
2AM
3AM
4AM
5AM
6AM
7AM
8AM
SPUR, TEXAS
Sheet 4 of 6 Sheets


May 20,1928
8PM
9PM
10PM
11PM
12M
1AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
4
3
2
1
0
RAINFALL RATE IN. IN/HR.
ACCUMULATED RAINFALL IN INCHES .80"
6
5
4
3
2
1
Q = Discharge in Second-feet
8PM
9PM
10PM
11PM
12M
1AM
SPUR, TEXAS
Sheet 5 of 6 Sheets



	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.08 ins.	.08 ins
date began	5-19-28	5-19-28
duration (hours)	1 hour	1 hour
Temperature (max. & min.)	74-89	74-89
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft.)	2 to 3 ins	2 to 3 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces, open ends.	Level terraces with borders diked.

AREAS NOS. 6 & 7

	(1) Time	(2) ins.t	(3) accd (in.)	(4) ins.d (in.)	(5) 60ins.d / 1-hr.t
	(Min.)	(Min.)			in.hr
5/20	8:10P	0	0	0	0
	8:15	H	.02	.02	.24
	8:20	H	.04	.02	.24
	8:25	5	.06	.02	.24
	8:30	H	.08	.02	.24
	8:35	5	.11	.03	.36
	8:40	5	.12	.01	.12
	8:45	5	.13	.01	.12
5/21	1:35 AM	H90	.14	.01	.12
	1:40	5	.21	.07	.84
	1:45	5	.31	.10	1.20
	1:50	H	.33	.02	.24
	1:55	5	.34	.01	.12
	2:00	H	.36	.01	.12
	2:05	5	.36	.01	.12
	2:10	5	.37	.01	.12
	2:15	5	.38	.01	.12
	2:20	5	.39	.01	.12
	2:25	5	.40	.01	.12
	2:30	5	.60	.20	2.40
	2:35	5	.63	.03	.36
	2:40	5	.66	.03	.36
	2:45	H	.70	.04	.48
	2:50	5	.73	.03	.36
	2:55	5	.76	.02	.24
	3:00	5	.76	.01	.12
	3:05	H	.77	.01	.12
	3:10	5	.77	0	0
	3:15	H	.78	.01	.12
	3:20	5	.80	.02	.24

SPUR, TEXAS
Sheet 6 of 6 Sheets

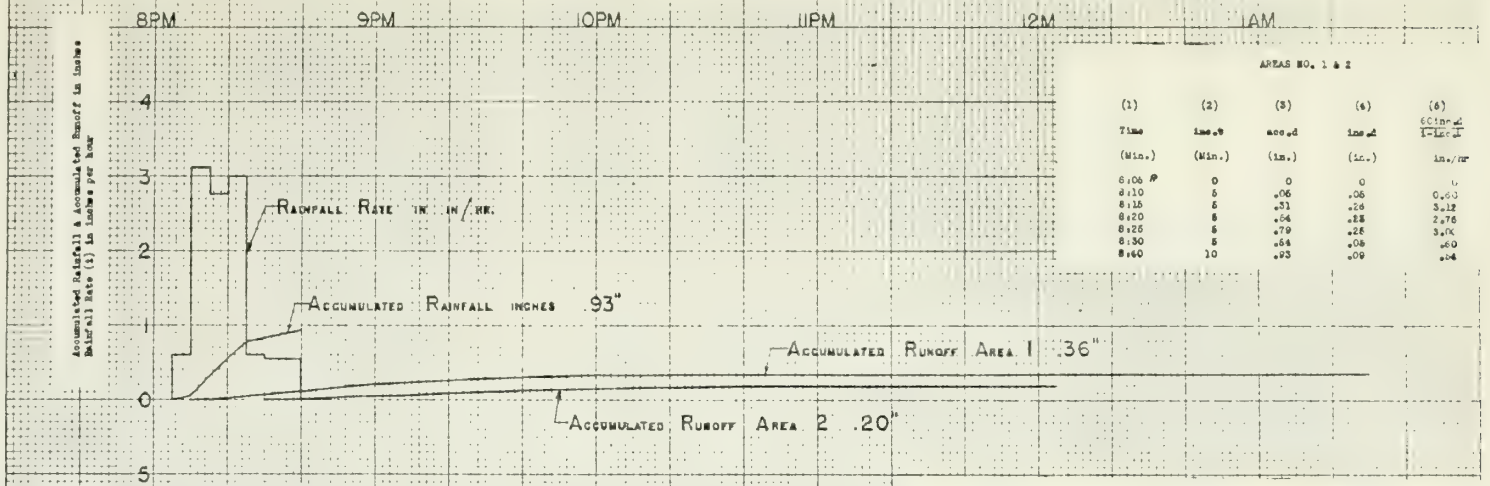
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ May 20, 1928.

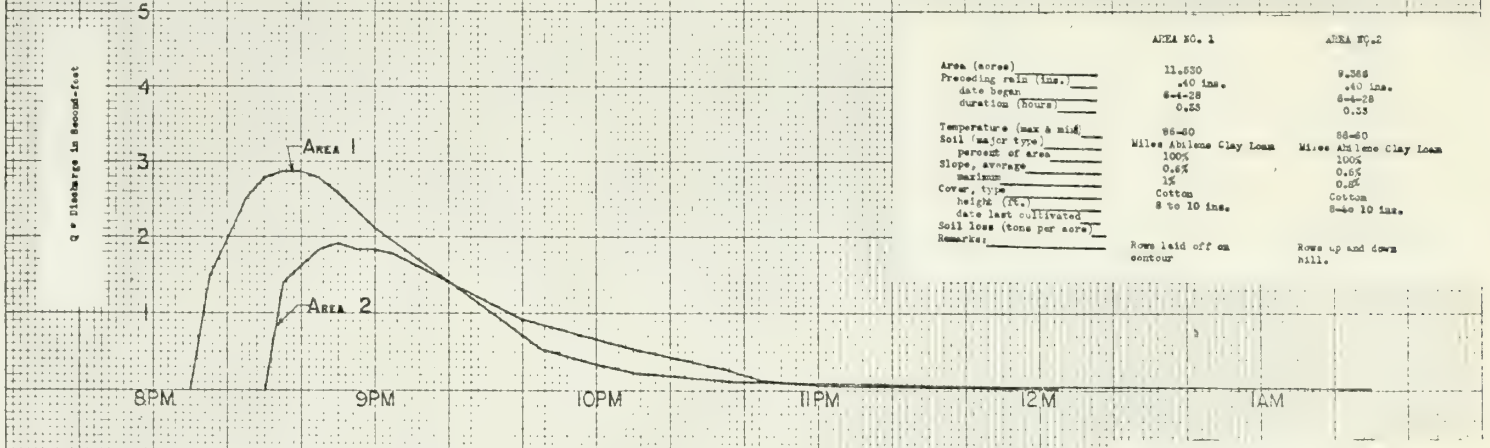
Plot by LEH date 8-16-39 checked by DBI date 8-15-39
Computations by DBI date 8-16-39 checked by LEH date 8-15-39

June 11, 1928



AREAS NO. 1 & 2

(1) Time (Min.)	(2) Inc.t (Min.)	(3) acc.d (in.)	(4) Inc.d (in.)	(5) $\frac{60 \text{ Inc.d}}{\text{I-Inc.t}}$ in./hr
8:05 P	0	0	0	0
8:10	5	.06	.06	0.60
8:15	5	.31	.26	3.12
8:20	5	.64	.25	2.76
8:25	5	.79	.28	3.0K
8:30	5	.84	.06	.60
8:40	10	.93	.09	.54



	AREA NO. 1	AREA NO. 2
Area (acres)	11.830	9.366
Preceding rain (ins.)	.40 ins.	.40 ins.
date began	6-4-28	6-4-28
duration (hours)	0.53	0.53
Temperature (max & min)	98-60	98-60
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	0.6%	0.6%
maximum	1%	0.8%
Cover, type	Cotton	Cotton
height (ft.)	8 to 10 ins.	8-to 10 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows laid off on contour	Rows up and down hill.

SPUR, TEXAS

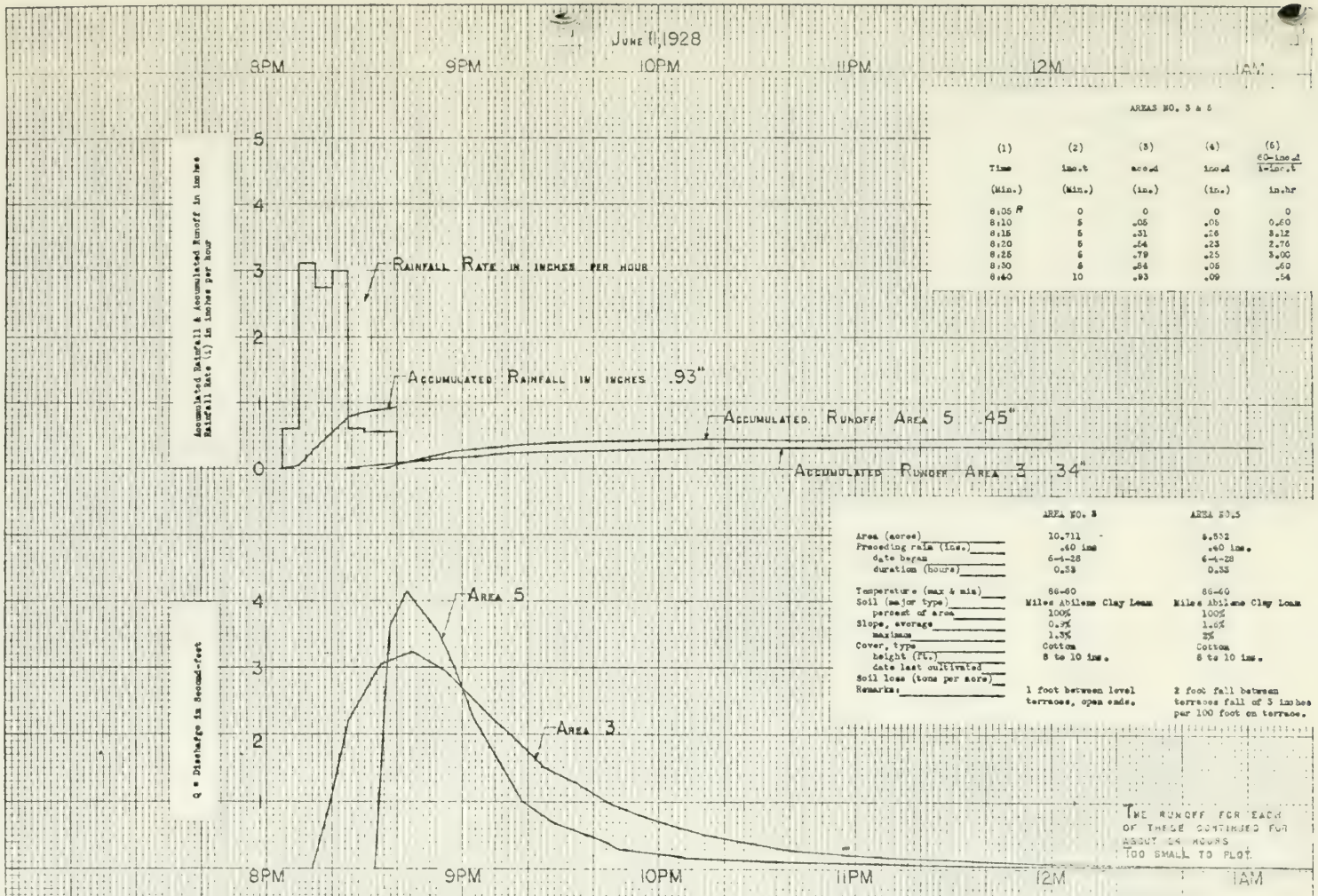
Sheet 1 of 3 Sheets

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SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 11, 1928.

Plot by LKH date 8-10-29 checked by DBI date 8-10-29.
Computations by DBI date 8-10-29 checked by LKH date 8-10-29



AREAS NO. 3 & 5

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(6) $\frac{60 \text{ inc.d}}{\text{i-inc.t}}$ in.hr
8:05 R	0	0	0	0
8:10	5	.05	.05	0.60
8:15	5	.31	.26	3.12
8:20	5	.54	.23	2.76
8:25	5	.79	.25	3.00
8:30	5	.84	.05	.60
8:40	10	.93	.09	.54

	AREA NO. 3	AREA NO.5
Area (acres)	10.711	5.532
Preceding rain (ins.)	.40 ins	.40 ins.
date began	6-4-28	6-4-28
duration (hours)	0.33	0.33
Temperature (max & min)	86-60	86-60
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	0.9%	1.6%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (Ft.)	8 to 10 ins.	8 to 10 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	1 foot between level terraces, open ends.	2 foot fall between terraces fall of 3 inches per 100 foot on terrace.

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SOIL CONSERVATION SERVICE
H. H. BENNETT, DIRECTOR

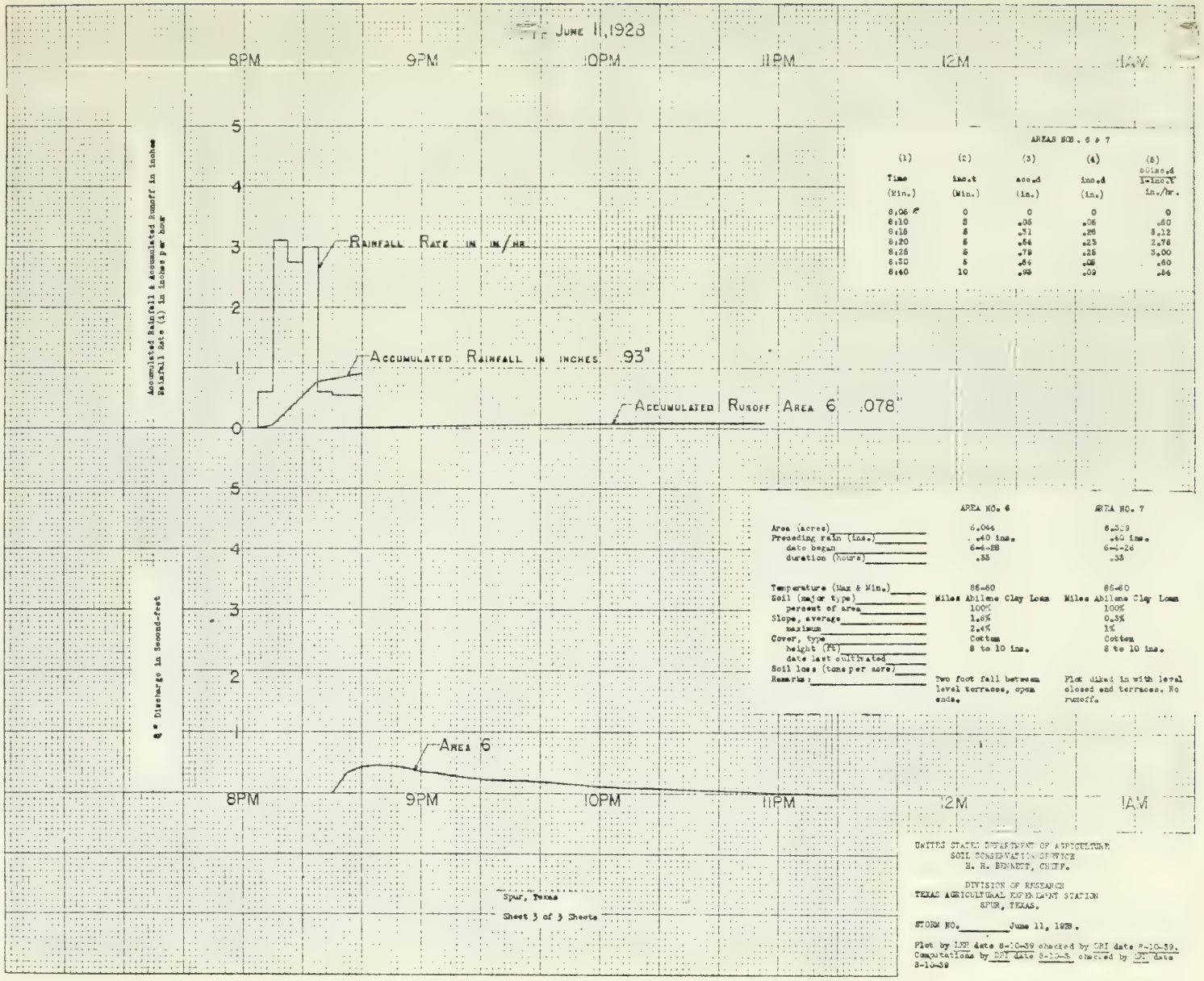
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 11, 1928.

Plot by LEM date 8-10-39 checked by DBI date 8-10-39.
Computations by JBY date 8-10-39 checked by LEM date 8-10-39

SPUR, TEXAS

Sheet 2 of 3 Sheets



AREAS NOS. 6 & 7

(1) Time (Min.)	(2) Inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) .01inc.d ÷Inc.t in./hr.
8:06 P	0	0	0	0
8:10	3	.05	.05	.80
8:15	5	.31	.26	3.12
8:20	5	.54	.23	2.76
8:25	5	.79	.25	3.00
8:30	5	.84	.05	.60
8:40	10	.93	.09	.54

	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	6.319
Preceding rain (ins.)	.40 ins.	.40 ins.
date began	6-4-28	6-4-28
duration (hours)	.33	.33
Temperature (Max & Min.)	86-60	86-60
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	0.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft)	8 to 10 ins.	8 to 10 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces, open ends.	Plot diked in with level closed end terraces. No runoff.

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SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

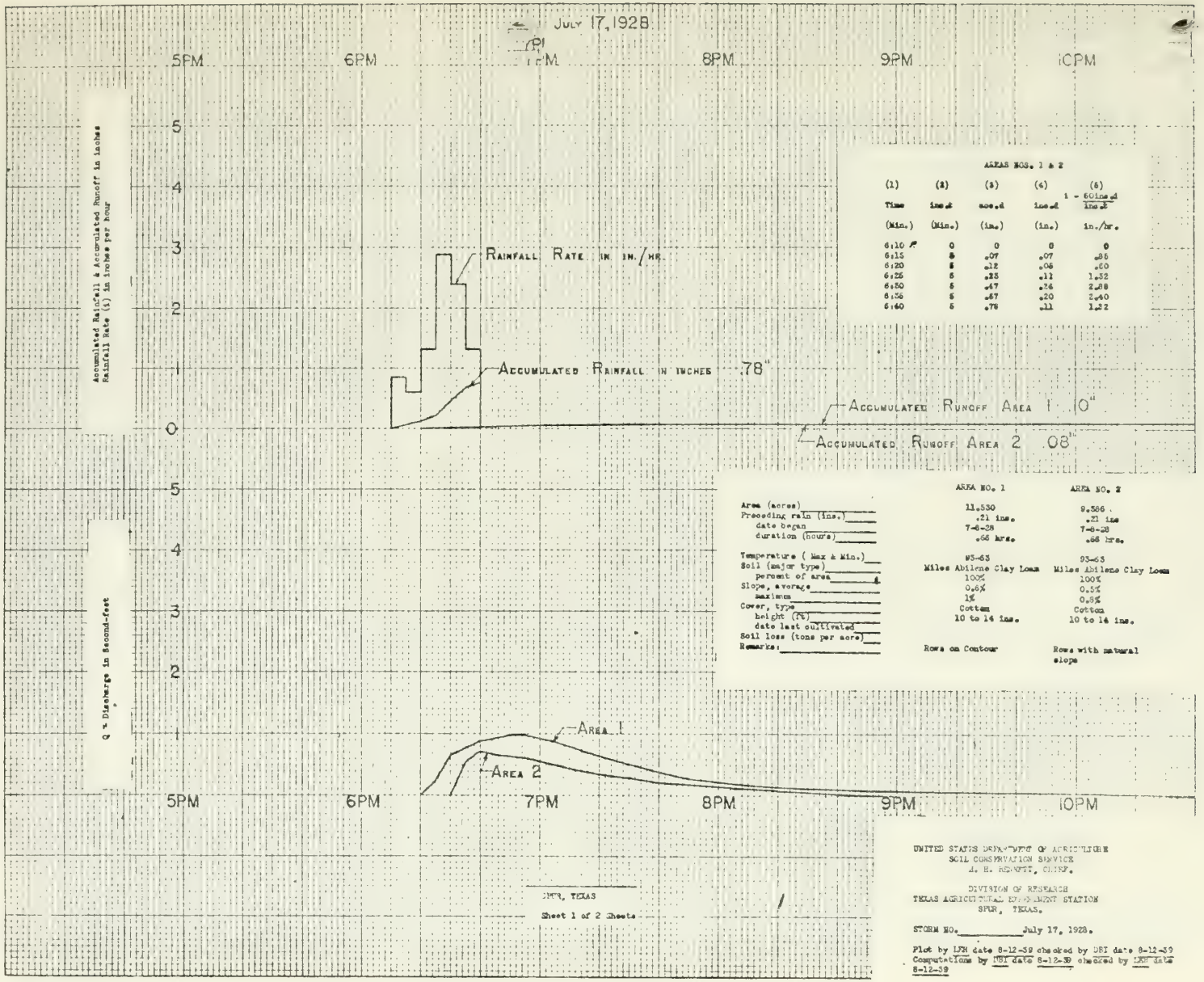
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 11, 1928.

Plot by LEE date 8-10-39 checked by CBI date 8-10-39.
Computations by CBI date 8-10-39 checked by LEE date 8-10-39

Spur, Texas

Sheet 3 of 3 Sheets



AREAS NOS. 1 & 2

(1) Time (Min.)	(2) ins.Σ (Min.)	(3) acc.d (ins.)	(4) ins.d (in.)	(5) $\frac{1 - 60 ins.d}{ins.Σ}$ in./hr.
6:10 P	0	0	0	0
6:15	5	.07	.07	.85
6:20	5	.12	.06	.60
6:25	5	.23	.11	1.32
6:30	5	.47	.24	2.88
6:35	5	.67	.20	2.40
6:40	5	.78	.11	1.32

	AREA NO. 1	AREA NO. 2
Area (acres)	11.530	9.586
Preceding rain (ins.)	.21 ins.	.21 ins
date began	7-6-28	7-6-28
duration (hours)	.66 hrs.	.66 hrs.
Temperature (Max & Min.)	93-63	93-63
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
Percent of area	100%	100%
Slope, average	0.6%	0.5%
Maximum	1%	0.8%
Cover, type	Cotton	Cotton
height (ft)	10 to 14 ins.	10 to 14 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows on Contour	Rows with natural slope

SPUR, TEXAS

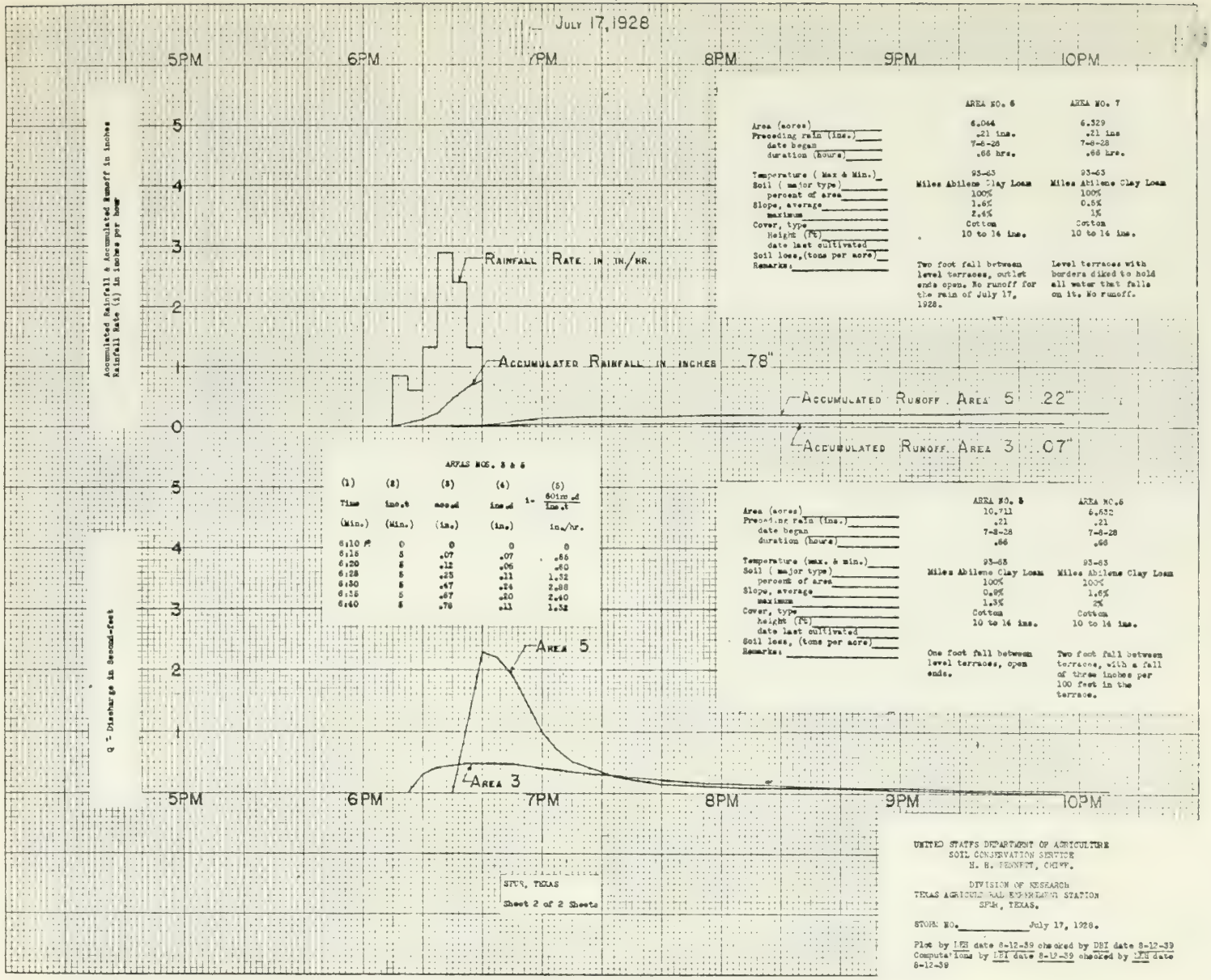
Sheet 1 of 2 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. July 17, 1928.

Plot by LFH date 8-12-39 checked by DBI date 8-12-39
Computations by DBI date 8-12-39 checked by LFH date 8-12-39



	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.21 ins.	.21 ins
date began	7-6-28	7-6-28
duration (hours)	.66 hrs.	.66 hrs.
Temperature (Max & Min.)		
Soil (major type)	93-63 Miles Abilene Clay Loam	93-63 Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	0.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
Height (Ft)	10 to 14 ins.	10 to 14 ins.
date last cultivated		
Soil loss, (tons per acre)		
Remarks:	Two foot fall between level terraces, outlet ends open. No runoff for the rain of July 17, 1928.	Level terraces with borders diked to hold all water that falls on it. No runoff.

AREAS NOS. 5 & 6

(1) Time (Min.)	(2) Δ t (Min.)	(3) Δ d (in.)	(4) $\frac{\Delta d}{\Delta t}$ (in.)	(5) $1-\frac{60 \Delta d}{\Delta t}$ in./hr.
6:10 P	0	0	0	0
6:15	5	.07	.07	.86
6:20	5	.12	.06	.80
6:25	5	.23	.11	1.32
6:30	5	.47	.24	2.88
6:35	5	.67	.20	2.40
6:40	5	.78	.11	1.32

	AREA NO. 5	AREA NO.6
Area (acres)	10.711	6.632
Preceding rain (ins.)	.21	.21
date began	7-6-28	7-6-28
duration (hours)	.66	.66
Temperature (max. & min.)		
Soil (major type)	93-63 Miles Abilene Clay Loam	93-63 Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	0.9%	1.6%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (Ft)	10 to 14 ins.	10 to 14 ins.
date last cultivated		
Soil loss, (tons per acre)		
Remarks:	One foot fall between level terraces, open ends.	Two foot fall between terraces, with a fall of three inches per 100 feet in the terrace.

SPUR, TEXAS

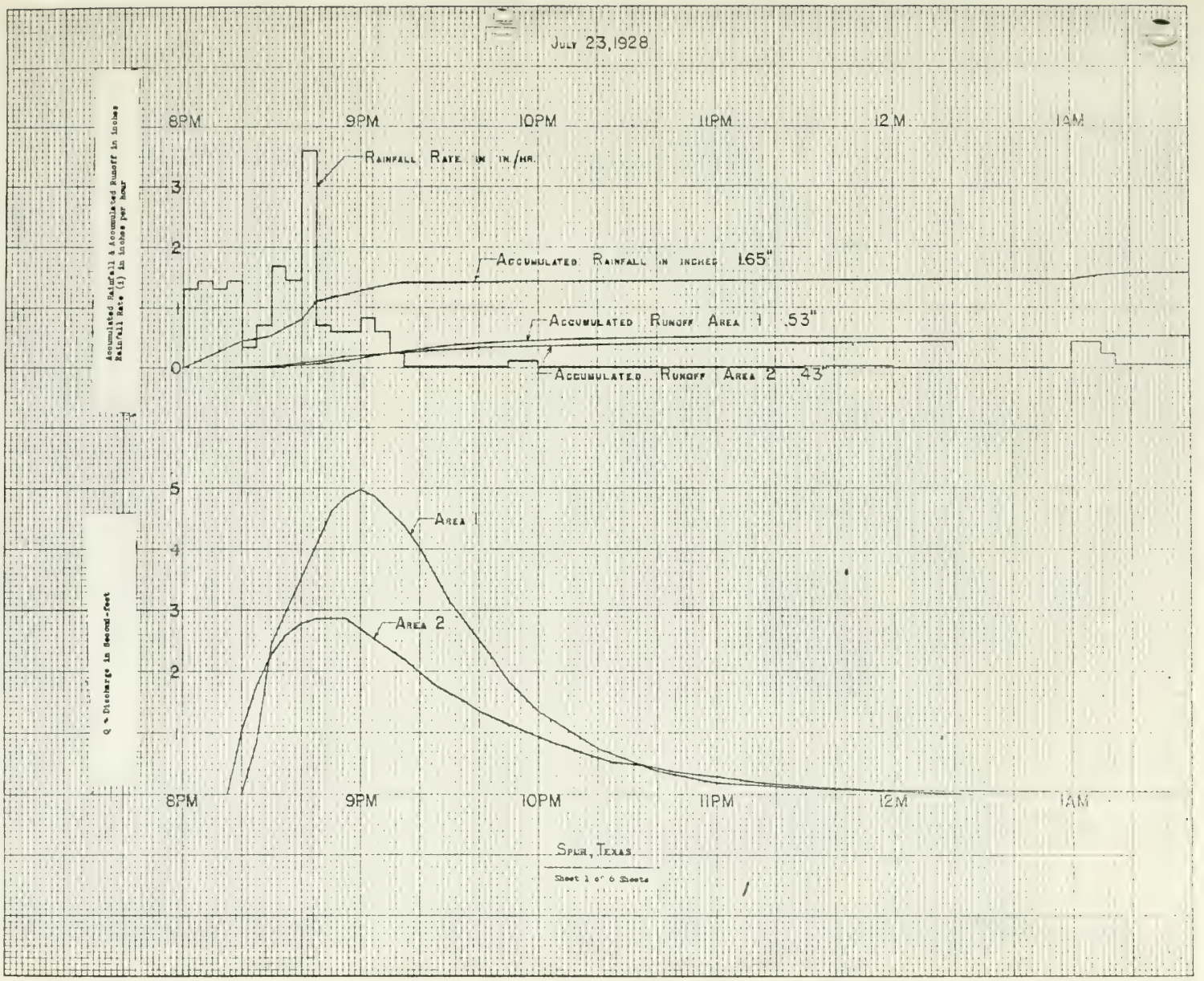
Sheet 2 of 2 Sheets

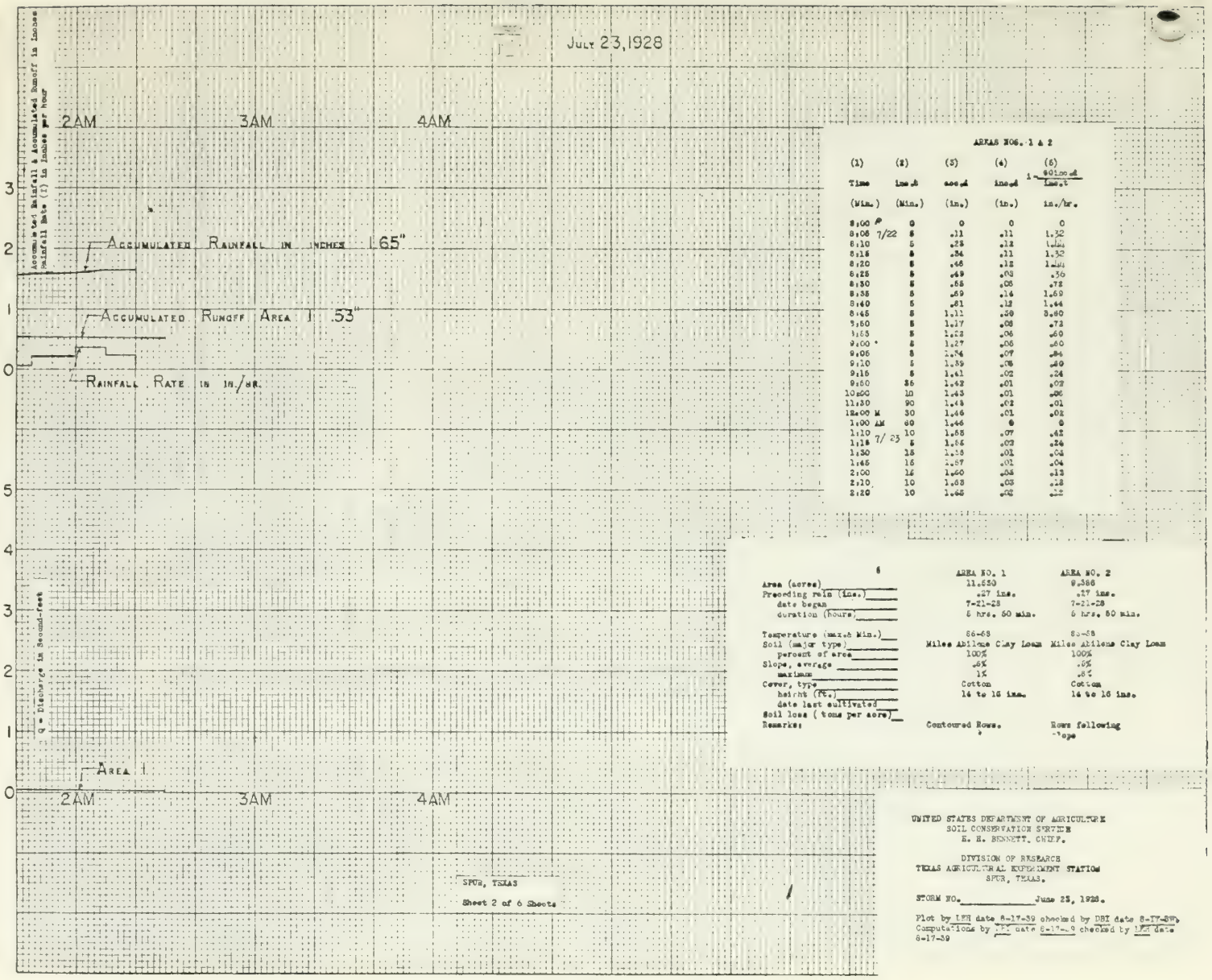
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. July 17, 1928.

Plot by LEH date 8-12-39 checked by DBI date 8-12-39
Computations by DBI date 8-12-39 checked by LEH date 8-12-39


July 23, 1928
8PM
9PM
10PM
11PM
12 M
1AM
Rainfall Rate in in./hr.
Accumulated Rainfall in inches 1.65"
Accumulated Runoff Area 1 .53"
Accumulated Runoff Area 2 .43"
Accumulated Rainfall & Accumulated Runoff in Inches
Rain/fall Rate (i) in inches per hour
Q = Discharge in Second-feet
Area 1
Area 2
Sper, Texas
Sheet 1 of 6 Sheets



AREAS NOS. 1 & 2

(1) Time	(2) Inches	(3) Accumulated	(4) Inches	(5) $i = \frac{60 \text{ Inches}}{\text{Min. } t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
8:00 P	0	0	0	0
8:05 7/22	5	.11	.11	1.32
8:10	5	.23	.12	1.44
8:15	5	.34	.11	1.32
8:20	5	.46	.12	1.44
8:25	5	.49	.03	.36
8:30	5	.55	.06	.72
8:35	5	.69	.14	1.68
8:40	5	.81	.12	1.44
8:45	5	1.11	.30	3.60
8:50	5	1.17	.06	.72
8:55	5	1.23	.06	.60
9:00 "	5	1.27	.06	.60
9:05	5	1.34	.07	.84
9:10	5	1.39	.05	.60
9:15	5	1.41	.02	.24
9:30	15	1.42	.01	.02
10:00	30	1.43	.01	.02
11:30	90	1.44	.01	.01
12:00 M	30	1.46	.01	.02
1:00 AM	60	1.46	0	0
1:10 7/23	10	1.53	.07	.42
1:15	5	1.56	.03	.36
1:30	15	1.56	.01	.04
1:45	15	1.57	.01	.04
2:00	15	1.60	.04	.12
2:10	10	1.63	.03	.18
2:20	10	1.65	.02	.12

	AREA NO. 1	AREA NO. 2
Area (acres)	11.650	9.386
Preceding rain (ins.)	.27 ins.	.27 ins.
date began	7-21-28	7-21-28
duration (hours)	5 hrs. 50 min.	5 hrs. 50 min.
Temperature (max. & Min.)	86-68	86-68
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft.)	14 to 16 ins.	14 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows following slope

SPUR, TEXAS

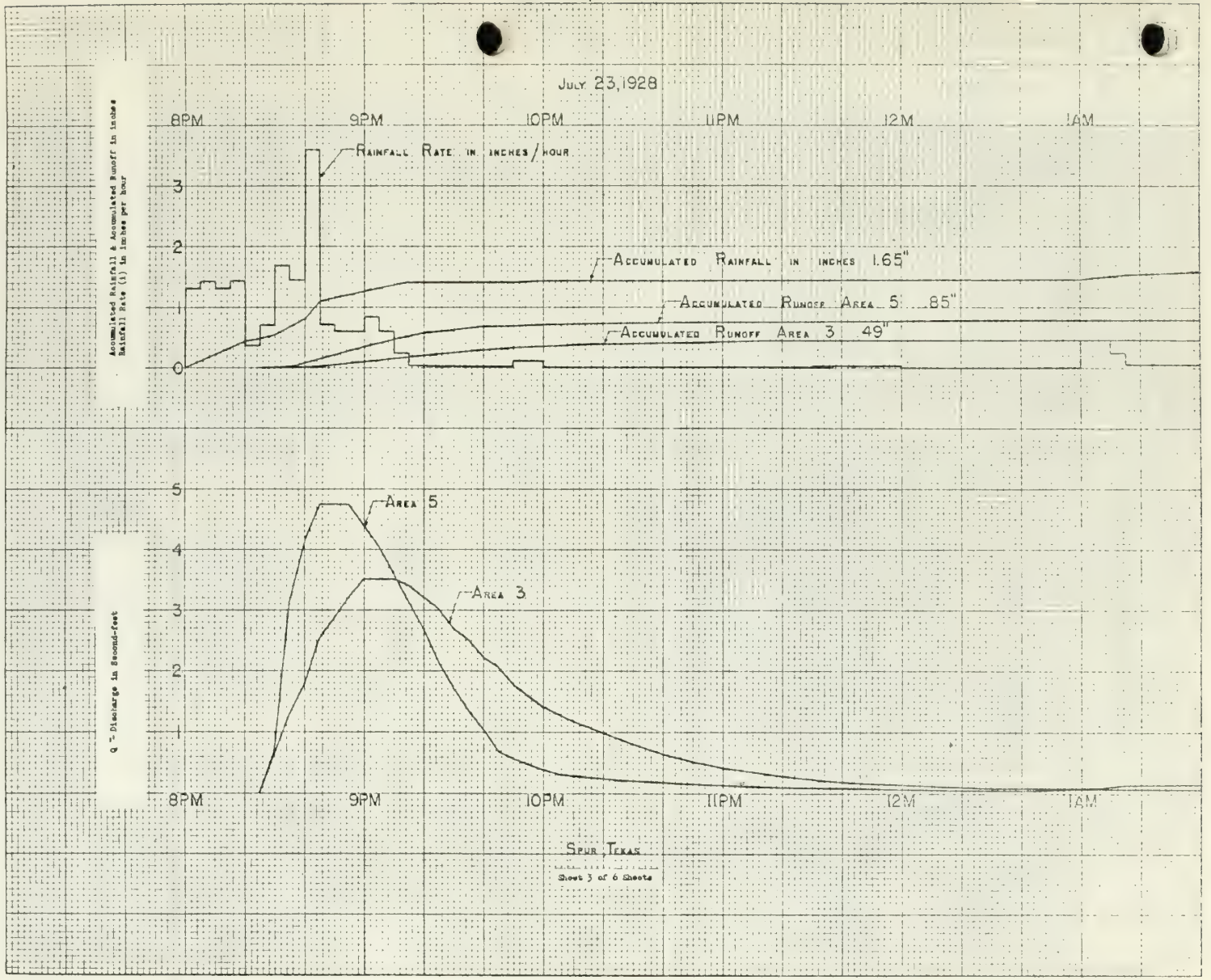
Sheet 2 of 6 Sheets

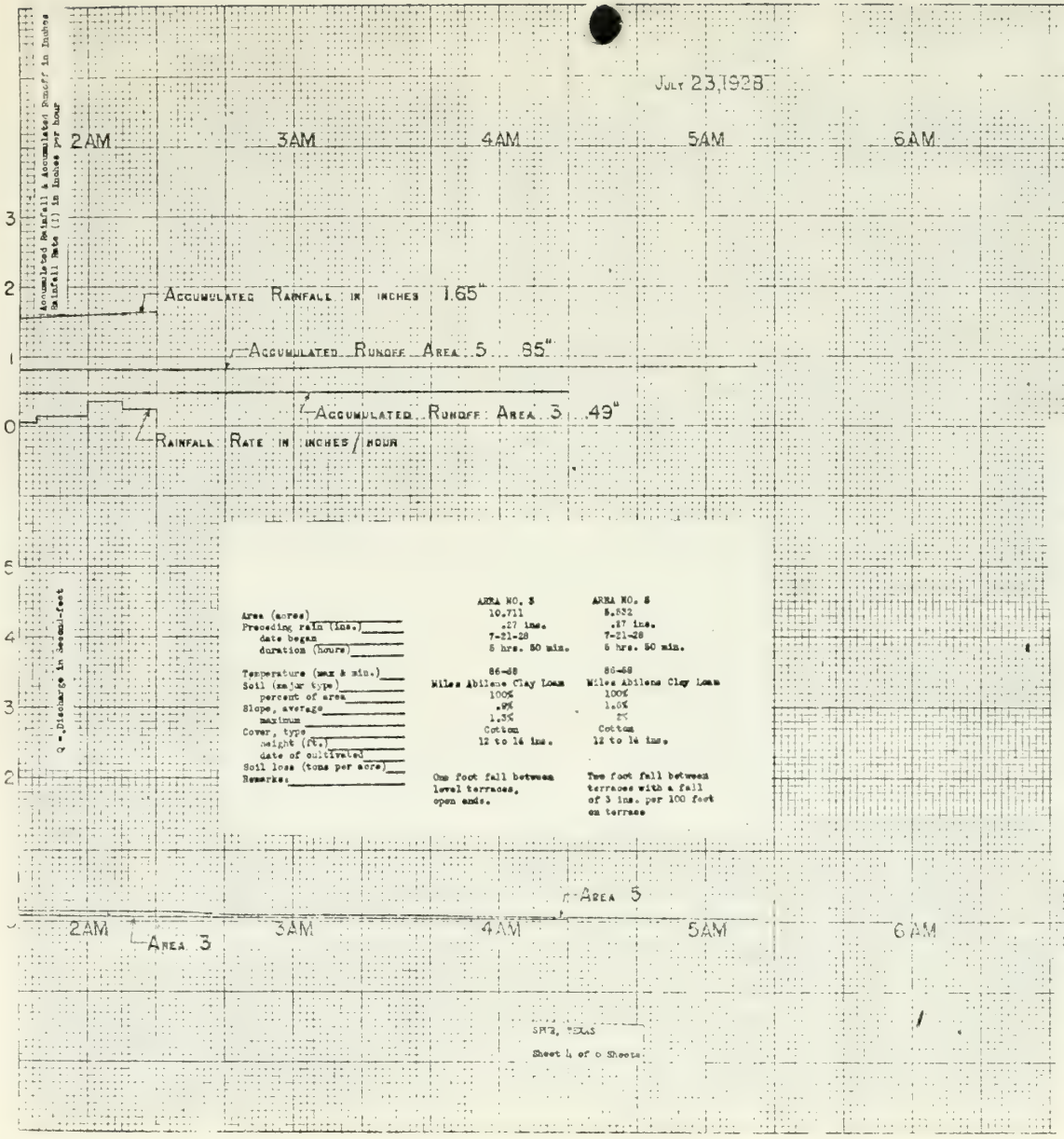
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 23, 1928.

Plot by LFH date 8-17-39 checked by DBI date 8-17-39
Computations by LFH date 8-17-39 checked by LFH date 8-17-39


July 23, 1928
8PM
9PM
10PM
11PM
12M
1AM
Rainfall Rate in inches / hour
Accumulated Rainfall in inches 1.65"
Accumulated Runoff Area 5 .85"
Accumulated Runoff Area 3 .49"
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
Area 5
Area 3
Q = Discharge in Second-feet
Spur, Texas
Sheet 3 of 6 Sheets



	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.832
Preceding rain (ins.)	.27 ins.	.27 ins.
date began	7-21-28	7-21-28
duration (hours)	5 hrs. 50 min.	5 hrs. 50 min.
Temperature (max & min.)	86-68	86-68
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.0%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (ft.)	12 to 14 ins.	12 to 14 ins.
date of cultivate		
Soil loss (tons per acre)		
Remarks.	One foot fall between level terraces, open ends.	Two foot fall between terraces with a fall of 3 ins. per 100 feet on terrace

AREAS NOS. 3 & 5

(1) Time (Min.)	(2) Ins.R (Min.)	(3) accd. (in.)	(4) ins.d (ins.)	(5) $i = \frac{60 \text{ ins.d}}{\text{Ins.t}}$ in./hr.
8:00	0	0	0	0
8:05	5	.11	.11	1.32
8:10	5	.23	.12	1.44
8:15	5	.34	.11	1.32
8:20	5	.46	.12	1.44
8:25	5	.49	.03	.36
8:30	5	.65	.06	.72
8:35	5	.89	.24	1.63
8:40	5	.81	.12	1.44
8:45	5	1.11	.30	3.60
8:50	5	1.17	.06	.72
8:55	5	1.23	.06	.60
9:00	5	1.27	.04	.60
9:05	5	1.34	.07	.84
9:10	5	1.32	.05	.60
9:15	5	1.41	.09	.24
9:50	35	1.42	.01	.02
10:00	10	1.43	.01	.06
11:30	90	1.46	.02	.01
12:00	30	1.46	.01	.02
1:00 AM	60	1.46	0	0
1:10	10	1.53	.07	.42
1:15	5	1.55	.02	.24
1:30	15	1.58	.03	.04
1:45	15	1.67	.01	.06
2:00	15	1.70	.03	.12
2:10	10	1.75	.05	.18
2:20	10	1.86	.02	.12

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

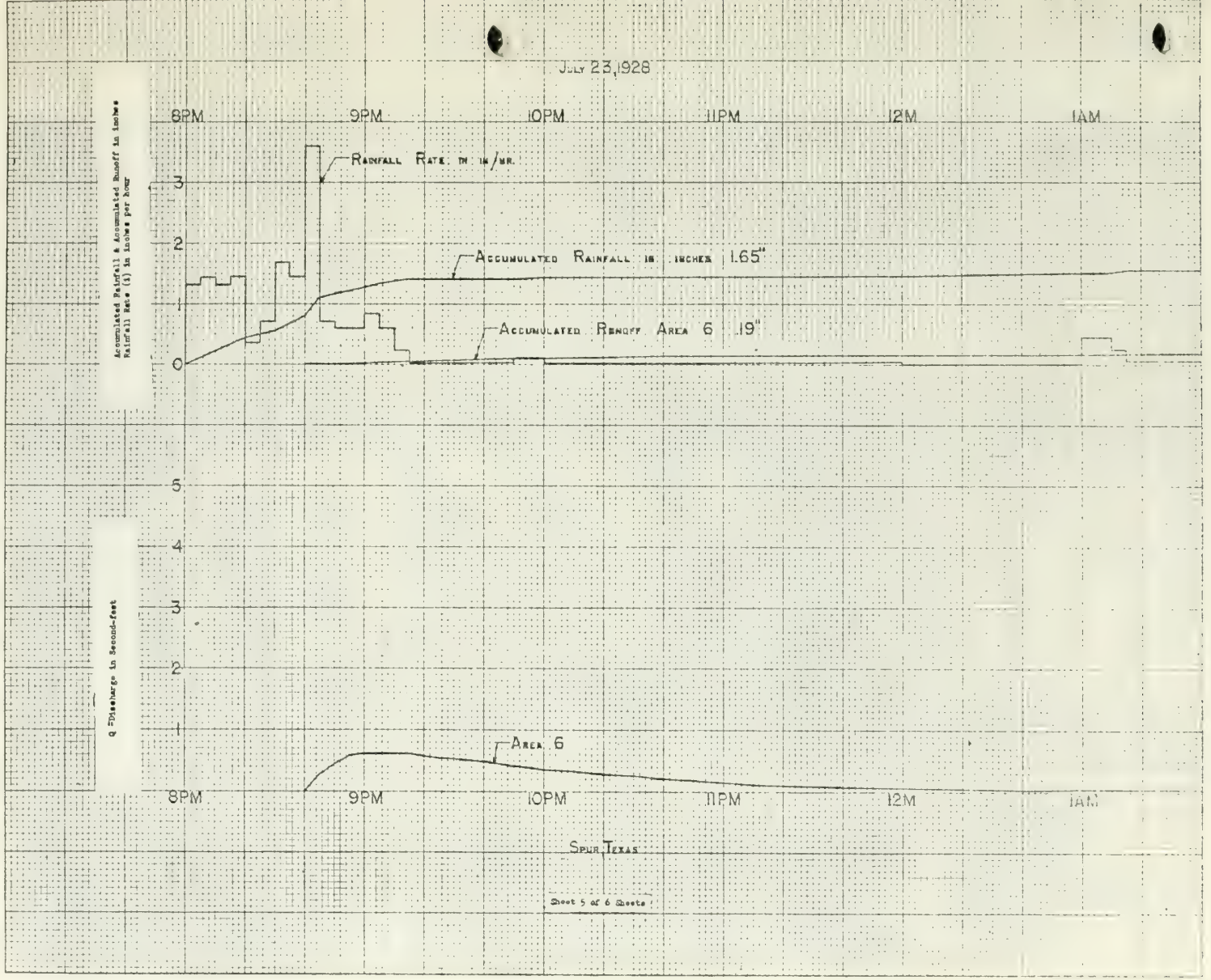
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

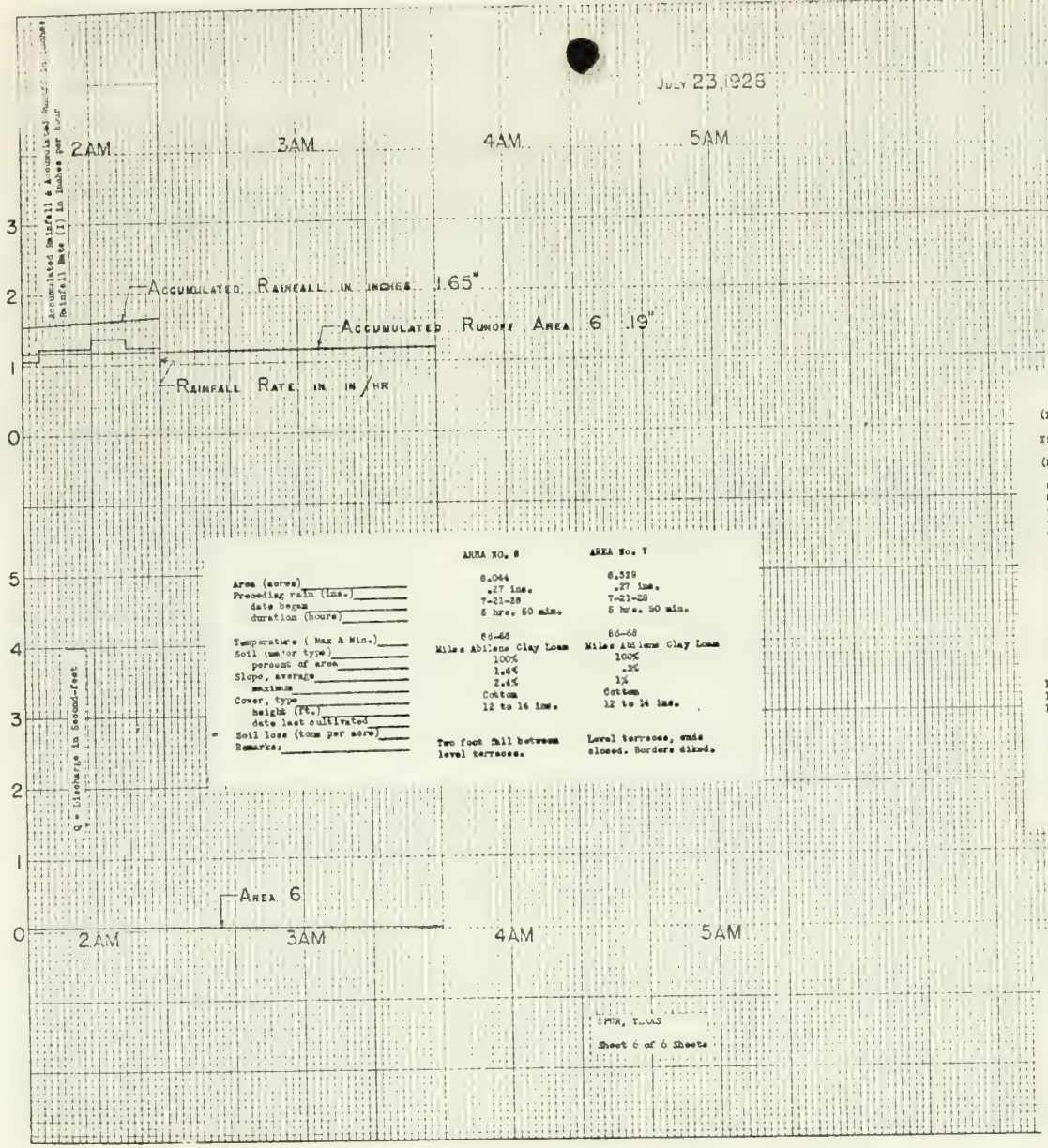
STORM NO. _____ July 23, 1928.

Plat by DBI date 8-17-38 checked by LMH date 8-17-38.
Computations by LMH date 8-17-38 checked by DBI date 8-17-38

SPUR, TEXAS

Sheet 4 of 6 Sheets


July 23, 1928
8PM
9PM
10PM
11PM
12M
1AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Rainfall Rate in in./hr.
Accumulated Rainfall in Inches 1.65"
Accumulated Runoff Area 6 .19"
0
1
2
3
Q Discharge in Second-feet
4
5
Area 6
Spur, Texas
Sheet 5 of 6 Sheets



	AREA NO. 8	AREA No. 7
Area (acres)	8.044	8.329
Preceding rain (Ins.)	.27 ins.	.27 ins.
date began	7-21-28	7-21-28
duration (hours)	5 hrs. 50 min.	5 hrs. 50 min.
Temperature (Max & Min.)	88-68	86-68
Soil (meter type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	1%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft.)	12 to 14 ins.	12 to 14 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fill between level terraces.	Level terraces, ends closed. Borders diked.

AREAS NOS. 6 & 7

(1) Time (Min.)	(2) ins.d (Min.)	(3) acc.d (ins.)	(4) ins.d (ins.)	(5) $1 - \frac{60\text{-ins.d}}{1\text{-ins.d}}$ ins/hr.
8:00 P.	0	0	0	0
8:05	5	.11	.11	1.32
8:10	5	.23	.12	1.44
8:15	5	.34	.11	1.32
8:20	5	.46	.11	1.32
8:25	5	.49	.03	.36
8:30	5	.65	.06	.72
8:35	5	.89	.14	1.68
8:40	5	.91	.12	1.44
8:45	5	1.11	.20	2.40
8:50	5	1.17	.06	.72
8:55	5	1.22	.05	.60
9:00	5	1.27	.05	.60
9:05	5	1.34	.07	.84
9:10	5	1.39	.05	.60
9:15	5	1.41	.02	.24
9:30	15	1.43	.01	.08
10:00	30	1.44	.01	.04
11:30	90	1.45	.02	.01
12:00	30	1.46	.01	.02
1:00 M	60	1.46	0	0
1:10	10	1.53	.07	.42
1:15	5	1.55	.02	.24
1:30	.15	1.56	.01	.04
1:45	15	1.57	.02	.04
2:00	15	1.60	.03	.12
2:10	10	1.63	.03	.18
2:20	10	1.65	.02	.12

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
[illegible], TEX.

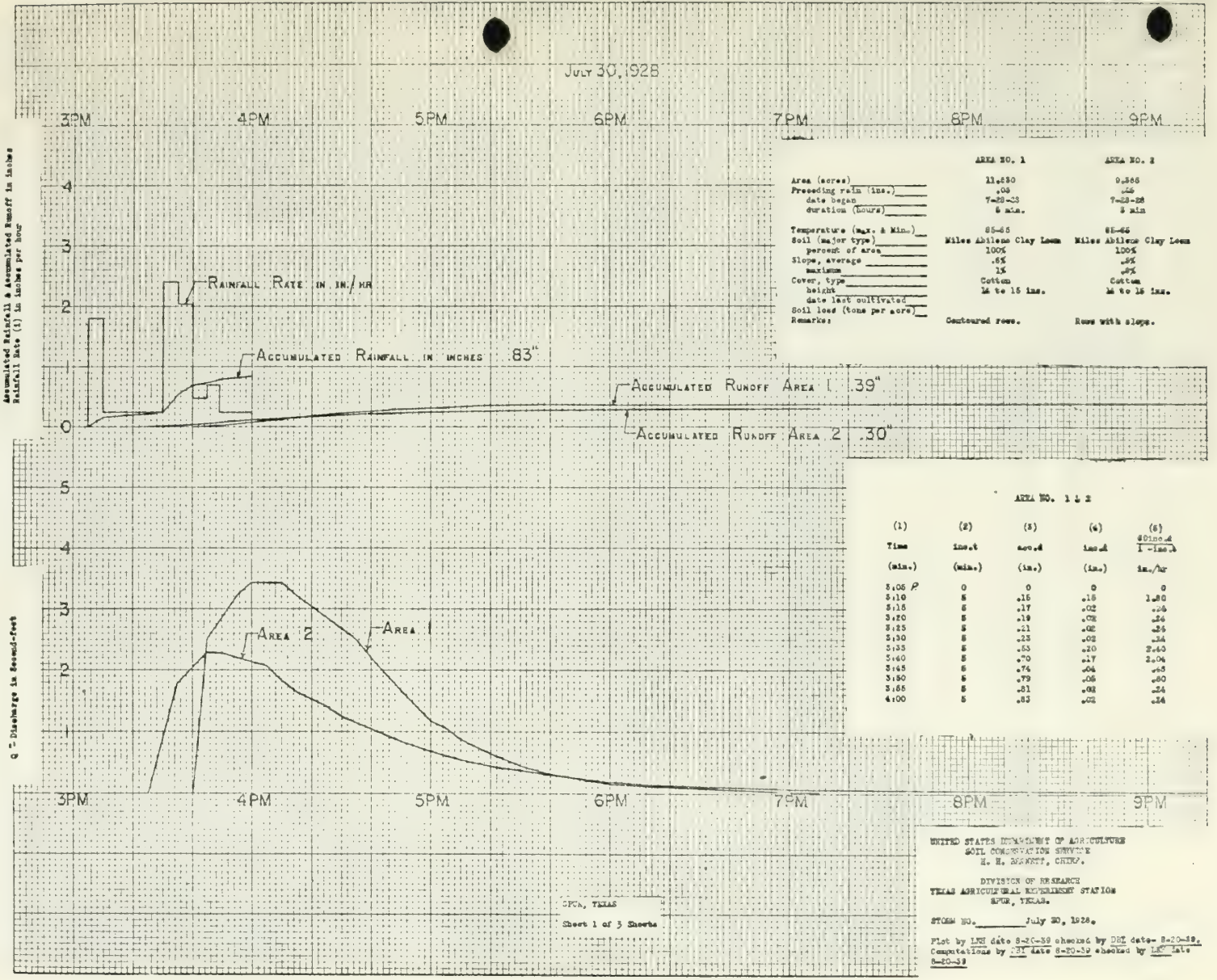
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
[illegible], TEXAS.

STORM NO. _____ July 23, 1928.

Plot by DBI date 8-17-39 checked by DBI date 8-17-39
Computations by LPI date 8-17-39 checked by MEI date 8-17-39

[illegible], TEXAS

Sheet 6 of 6 Sheets



	AREA NO. 1	AREA NO. 2
Area (acres)	11.830	9.366
Preceding rain (ins.)	.09	.26
date began	7-28-28	7-28-28
duration (hours)	5 min.	5 min
Temperature (max. & Min.)	85-65	85-65
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height	14 to 15 ins.	14 to 15 ins.
date last cultivated		
Soil load (tons per acre)		
Remarks:	Contoured rows.	Rows with slope.

AREA NO. 1 & 2

(1) Time	(2) Ins.t	(3) acc.d	(4) Ins.d	(5) ΔIns.d / t - Ins.h
(min.)	(min.)	(in.)	(in.)	in./hr
3:05 P	0	0	0	0
3:10	5	.15	.15	1.80
3:15	5	.17	.02	.24
3:20	5	.19	.02	.24
3:25	5	.21	.02	.24
3:30	5	.23	.02	.24
3:35	5	.53	.20	2.40
3:40	5	.70	.17	2.04
3:45	5	.74	.04	.48
3:50	5	.79	.05	.60
3:55	5	.81	.02	.24
4:00	5	.83	.02	.24

OPCA, TEXAS

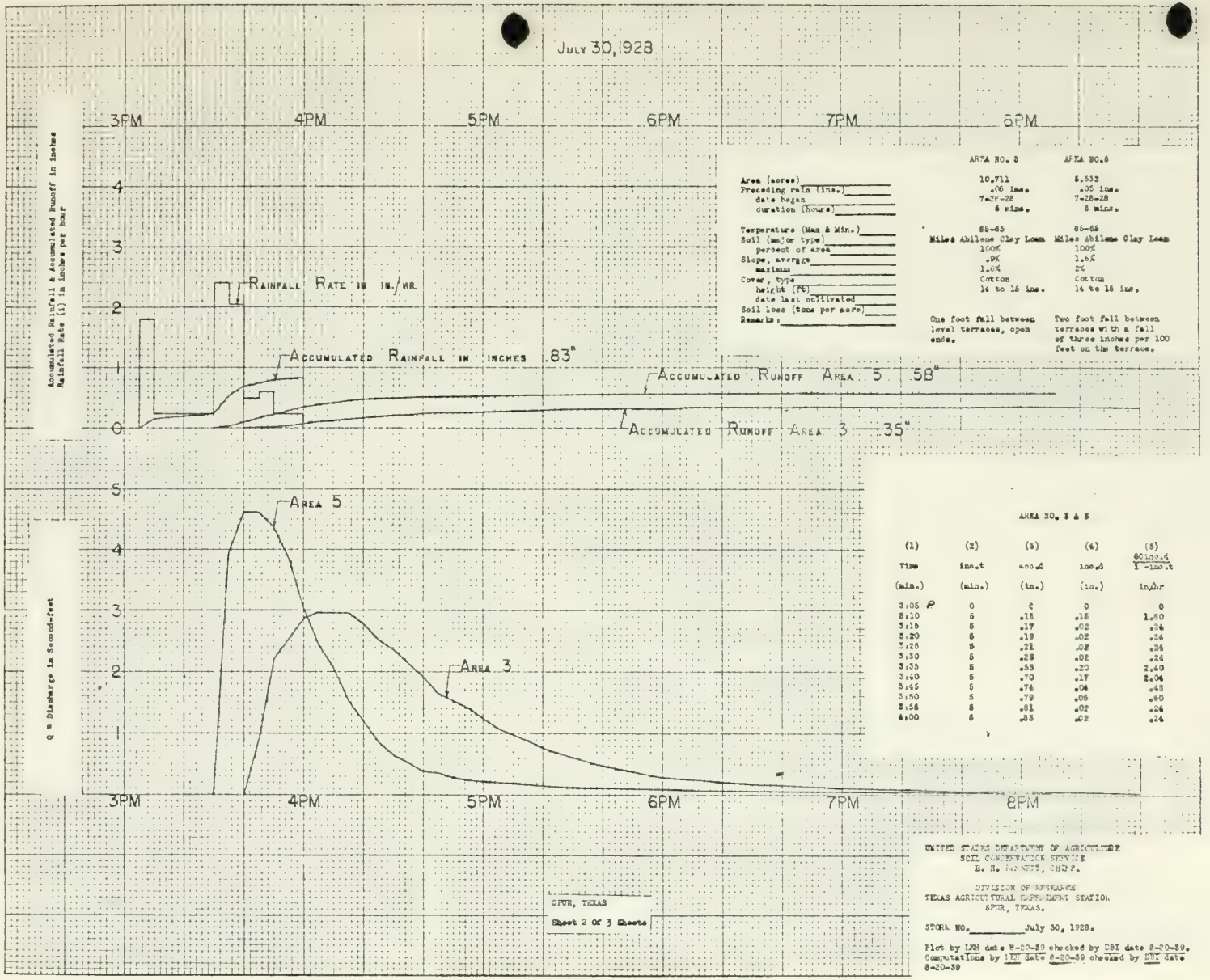
Sheet 1 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ July 30, 1928.

Plot by LNH date 8-20-32 checked by DEL date- 8-20-32.
Computations by DEL date 8-20-32 checked by LNH date 8-20-32



	Area No. 3	Area No. 5
Area (acres)	10.711	5.532
Preceding rain (ins.)	.06 ins.	.05 ins.
date began	7-28-28	7-28-28
duration (hours)	8 mins.	8 mins.
Temperature (Max & Min.)	86-65	86-65
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.6%
maximum	1.6%	2%
Cover, type	Cotton	Cotton
height (ft.)	14 to 16 ins.	14 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces, open ends.	Two foot fall between terraces with a fall of three inches per 100 feet on the terrace.

Area No. 3 & 5

(1) Time (min.)	(2) Δt (min.)	(3) Δ Rainfall (in.)	(4) Δ Runoff (in.)	(5) $\frac{60 \Delta R}{\Delta t}$ = i in/hr
3:05 P	0	0	0	0
3:10	5	.15	.15	1.80
3:15	5	.17	.02	.24
3:20	5	.19	.02	.24
3:25	5	.21	.02	.24
3:30	5	.23	.02	.24
3:35	5	.53	.20	2.40
3:40	5	.70	.17	2.04
3:45	5	.74	.04	.48
3:50	5	.79	.05	.60
3:58	8	.81	.02	.24
4:00	5	.83	.02	.24

SPUR, TEXAS

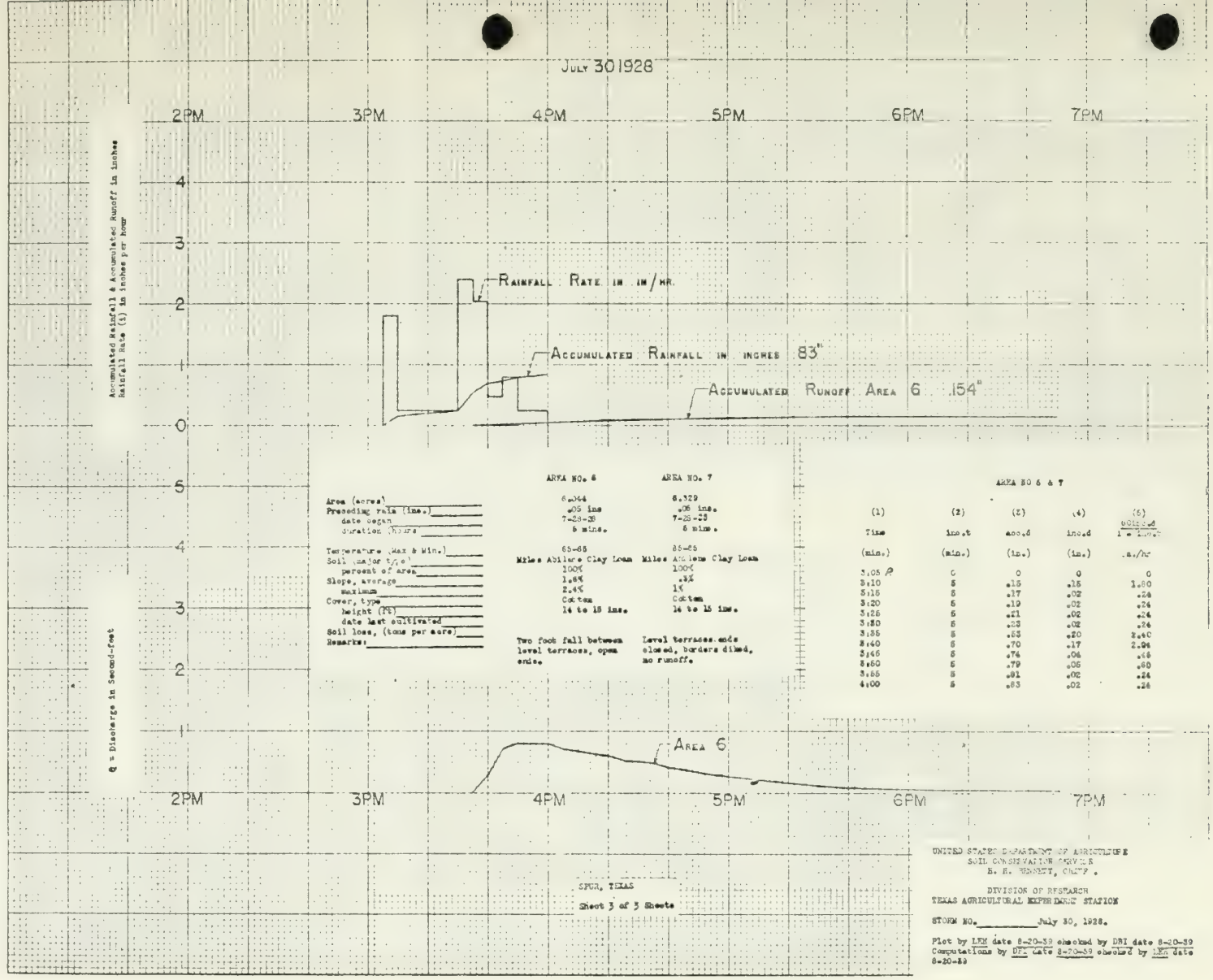
Sheet 2 Of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. July 30, 1928.

Plot by LEH date 8-20-39 checked by DBI date 8-20-39.
Computations by LEH date 8-20-39 checked by DBI date 8-20-39



	AREA NO. 6	AREA NO. 7
Area (acres)	6.464	8.329
Preceding rain (ins.)	.05 ins	.06 ins.
date began	7-28-28	7-28-28
duration (hours)	6 mins.	6 mins.
Temperature (Max & Min.)	65-85	85-65
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.8%	1%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (ft)	14 to 15 ins.	14 to 15 ins.
date last cultivated		
Soil loss, (tons per acre)		
Remarks:	Two foot fall between level terraces, open ends.	Level terraces ends closed, borders diked, no runoff.

AREA NO 6 & 7

(1) Time (min.)	(2) ins.t (in.)	(3) acc.d (in.)	(4) ins.d (in.)	(5) Unit of d 1 = 1.000 in./hr
3:05 P	0	0	0	0
3:10	5	.15	.15	1.80
3:15	5	.17	.02	.24
3:20	5	.19	.02	.24
3:25	5	.21	.02	.24
3:30	5	.23	.02	.24
3:35	5	.53	.30	3.60
3:40	5	.70	.17	2.04
3:45	5	.74	.04	.48
3:50	5	.79	.05	.60
3:55	5	.81	.02	.24
4:00	5	.83	.02	.24

SPUR, TEXAS

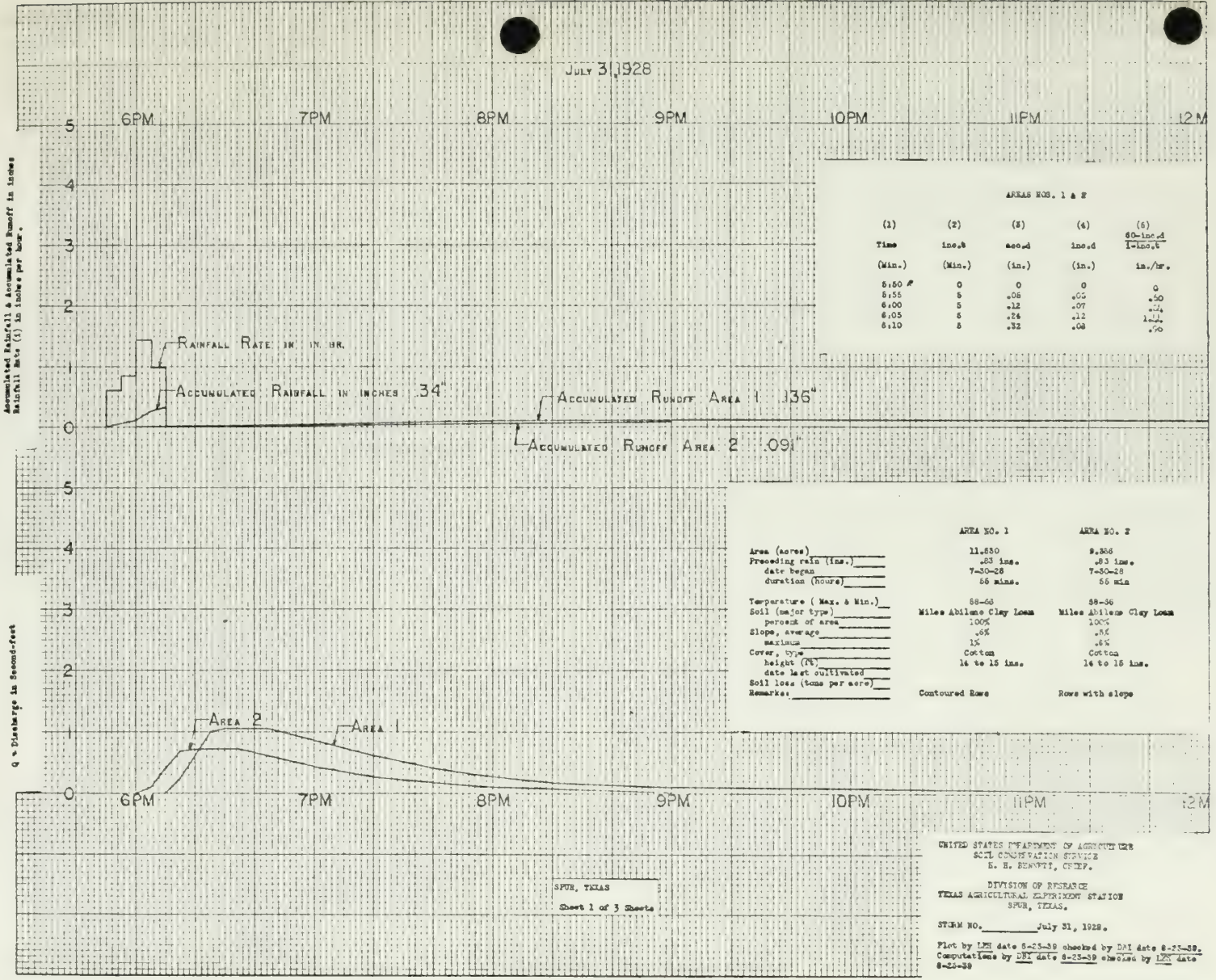
Sheet 3 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. _____ July 30, 1928.

Plot by LEH date 8-20-39 checked by DBI date 8-20-39
Computations by DBI date 8-20-39 checked by LEH date 8-20-39



AREAS NOS. 1 & 2

(1) Time (Min.)	(2) ins.t (Min.)	(3) acc.d (in.)	(4) ins.d (in.)	(5) 60-ins.d / I-ins.t in./hr.
5:50 P	0	0	0	0
5:55	5	.06	.05	.50
6:00	5	.12	.07	.84
6:05	5	.24	.12	1.44
6:10	5	.32	.08	.96

	AREA NO. 1	AREA NO. 2
Area (acres)	11.830	9.356
Preceding rain (ins.)	.83 ins.	.83 ins.
date began	7-30-28	7-30-28
duration (hours)	55 mins.	55 min
Temperature (Max. & Min.)	88-68	88-36
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.8%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	14 to 15 ins.	14 to 15 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows	Rows with slope

SPUR, TEXAS

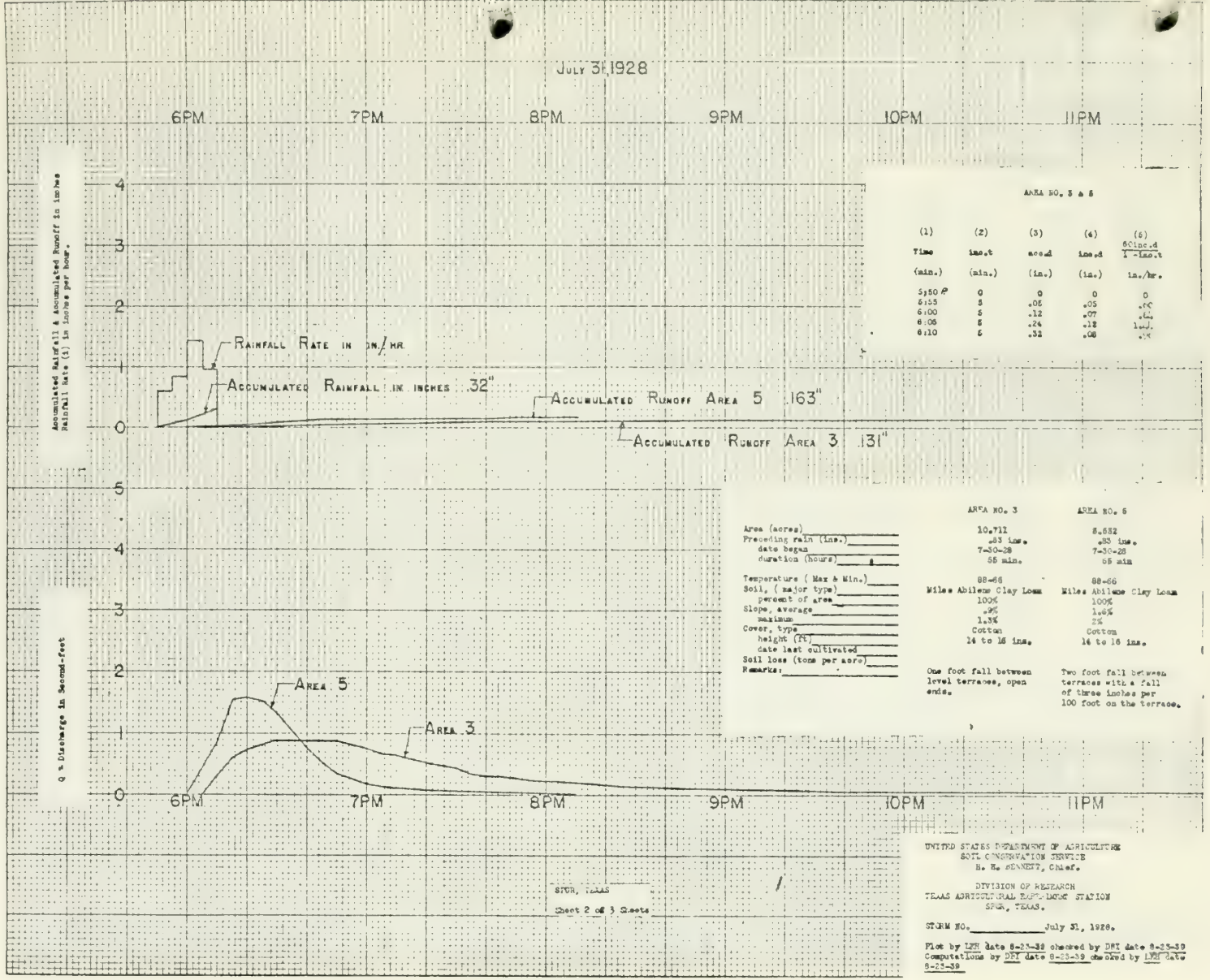
Sheet 1 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ July 31, 1928.

Plot by LEH date 8-23-39 checked by DAI date 8-23-39.
Computations by DBI date 8-23-39 checked by LEH date 8-23-39



AREA NO. 3 & 5

(1) Time (min.)	(2) ins.t (min.)	(3) acc.d (in.)	(4) ins.d (in.)	(5) 60ins.d / t -ins.t in./hr.
5:50 P	0	0	0	0
5:55	5	.05	.05	.60
6:00	5	.12	.07	.84
6:06	6	.24	.12	1.20
6:10	4	.32	.08	.96

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	8.682
Preceding rain (ins.)	.83 ins.	.83 ins.
date began	7-30-28	7-30-28
duration (hours)	55 min.	55 min
Temperature (Max & Min.)	88-66	88-66
Soil, (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.6%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (ft)	14 to 16 ins.	14 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces, open ends.	Two foot fall between terraces with a fall of three inches per 100 foot on the terrace.

STOR, TEXAS

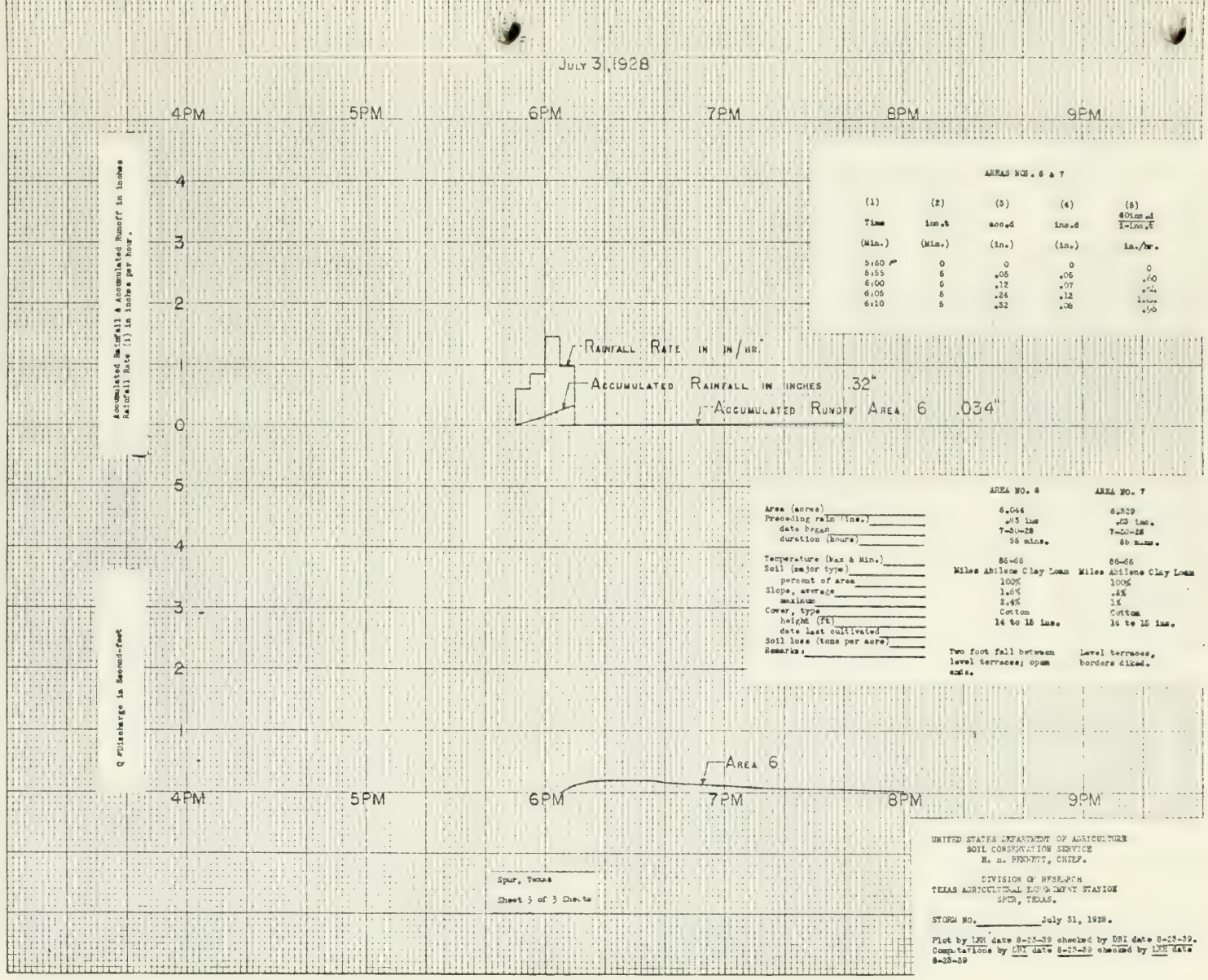
Sheet 2 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, Chief.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
STOR, TEXAS.

STORM NO. _____ July 31, 1928.

Plot by LFH date 8-24-39 checked by DBI date 8-25-39
Computations by DFI date 8-25-39 checked by LFH date 8-25-39



AREAS NOS. 6 & 7

(1) Time (Min.)	(2) Inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \text{ inc.d}}{\text{I-inc.f}}$ in./hr.
5:50	0	0	0	0
5:55	5	.05	.05	.60
6:00	5	.12	.07	.84
6:05	5	.24	.12	1.44
6:10	5	.32	.08	.96

Area (acres)
Preceding rain (ins.)
date began
duration (Hours)
Temperature (Max & Min.)
Soil (major type)
percent of area
Slope, average
maximum
Cover, type
height (ft)
date last cultivated
Soil loss (tons per acre)
Remarks:

	AREA NO. 6	AREA NO. 7
	6.044	8.329
	.43 ins	.53 ins.
	7-31-28	7-30-28
	55 mins.	5h mins.
	86-66	86-66
	Miles Abilene Clay Loam	Miles Abilene Clay Loam
	100%	100%
	1.6%	.8%
	2.4%	1%
	Cotton	Cotton
	14 to 15 ins.	14 to 15 ins.
	Two foot fall between level terraces; open ends.	Level terraces, borders diked.

Spur, Texas

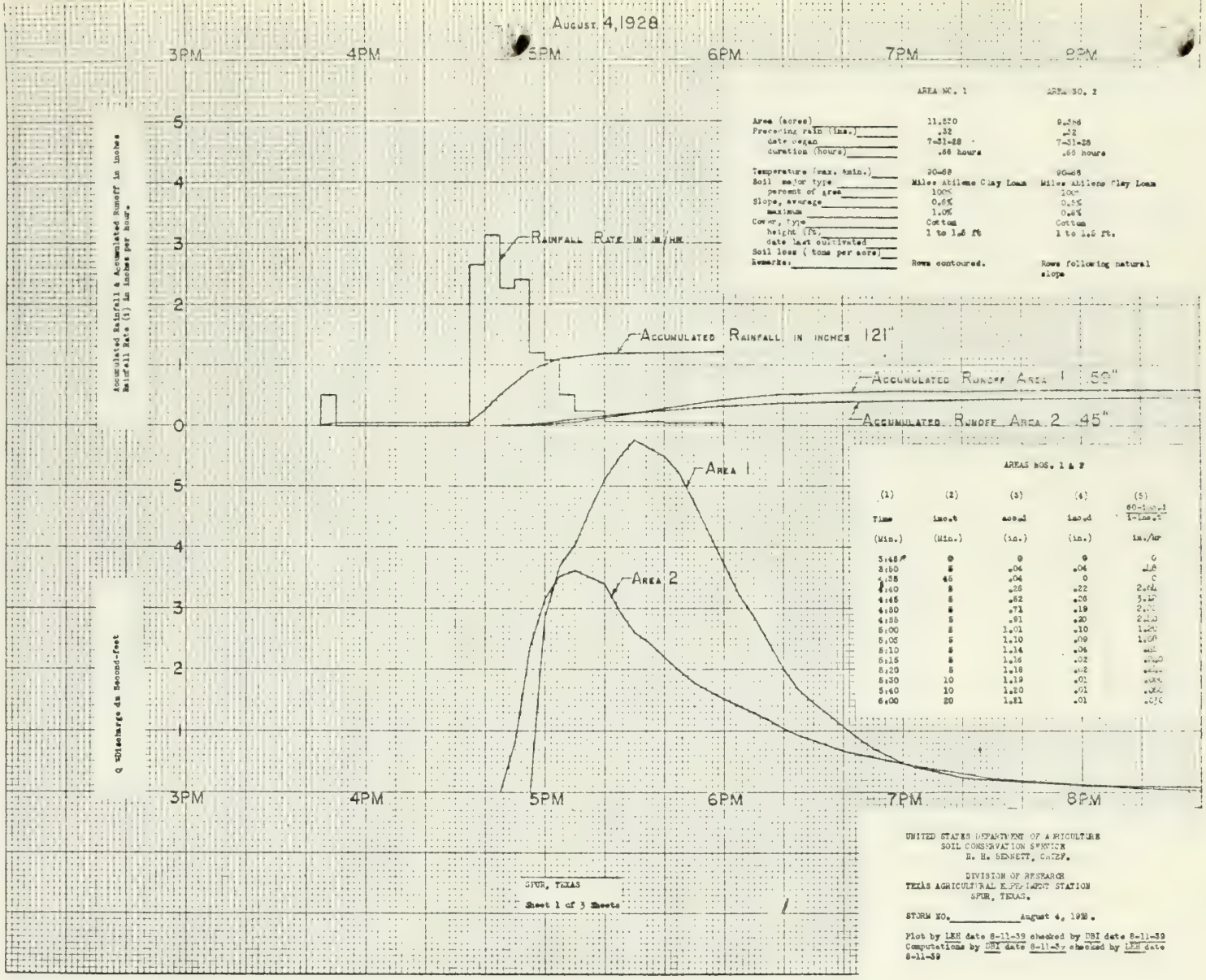
Sheet 3 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. July 31, 1928.

Plot by LEH date 8-28-39 checked by DBI date 8-28-39.
Computations by DBI date 8-28-39 checked by LEH date 8-28-39



	Area No. 1	Area No. 2
Area (acres)	11.550	9.386
Preceding rain (ins.)	.32	.32
date began	7-31-28	7-31-28
duration (hours)	.66 hours	.66 hours
Temperature (max. &min.)	90-68	90-68
Soil major type	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	0.6%	0.4%
maximum	1.0%	0.8%
Cover, type	Cotton	Cotton
height (ft)	1 to 1.5 ft	1 to 1.5 ft.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows contoured.	Rows following natural slope

Areas Nos. 1 & 2

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \times \text{inc.d}}{\text{inc.t}}$ in./hr
3:46	0	0	0	0
3:50	5	.04	.04	.48
4:35	45	.04	0	0
4:40	5	.26	.22	2.64
4:45	5	.82	.56	6.72
4:50	5	.71	.19	2.28
4:55	5	.91	.20	2.40
5:00	5	1.01	.10	1.20
5:05	5	1.10	.09	1.08
5:10	5	1.14	.04	.48
5:15	5	1.16	.02	.24
5:20	5	1.18	.02	.24
5:30	10	1.19	.01	.06
5:40	10	1.20	.01	.06
6:00	20	1.21	.01	.03

SPUR, TEXAS

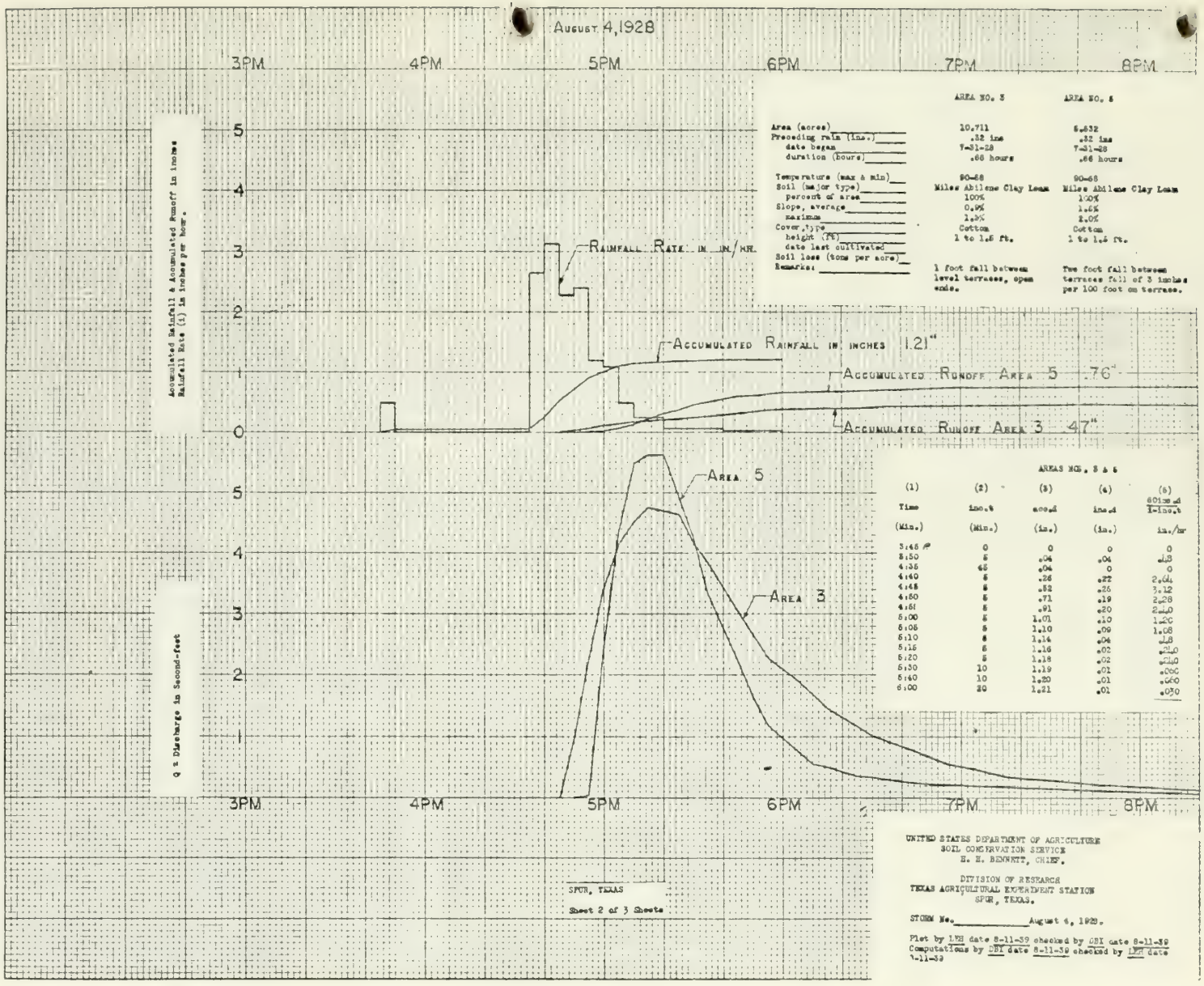
Sheet 1 of 3 Sheets

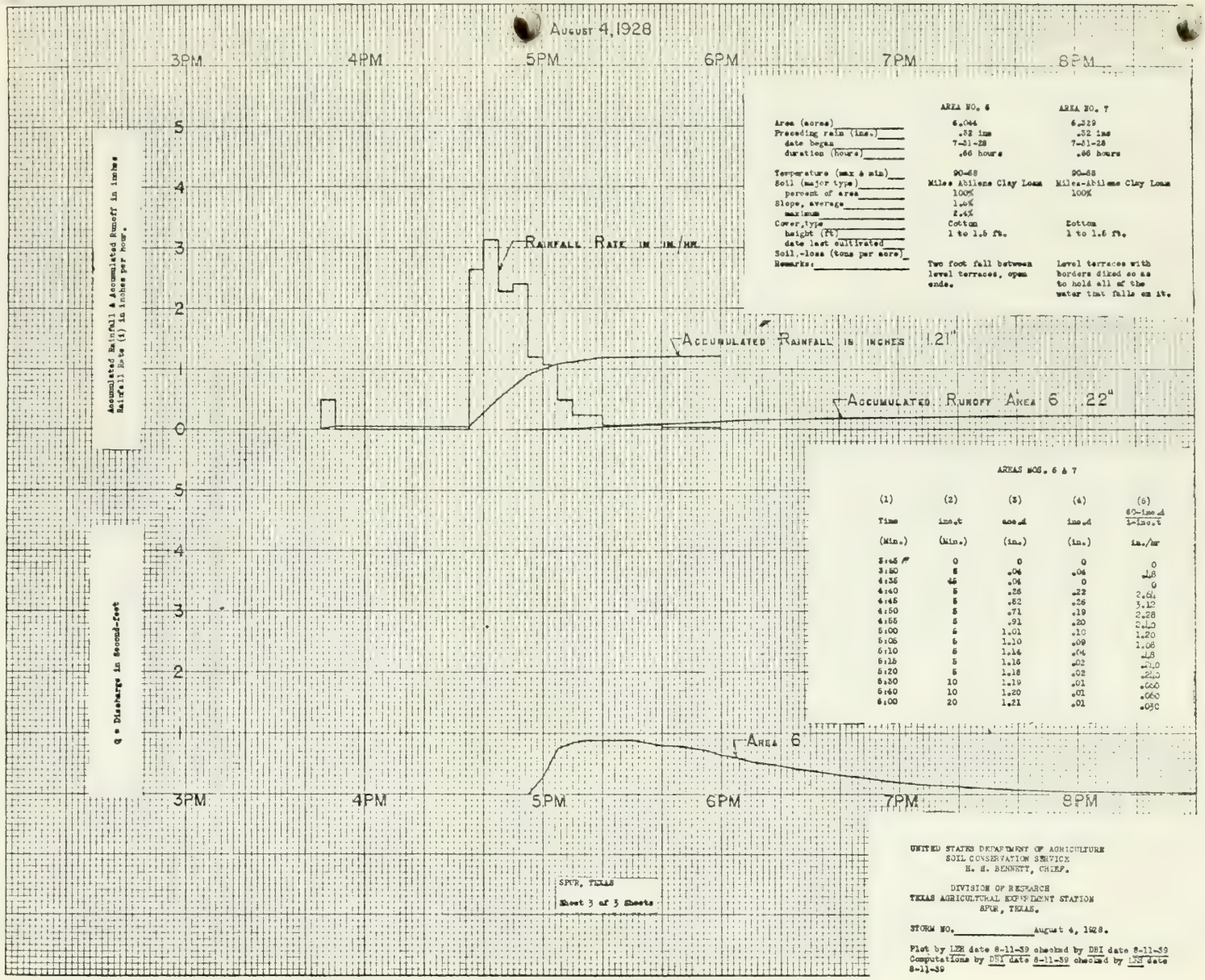
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ August 4, 1928.

Plot by LEH date 8-11-39 checked by DBI date 8-11-39
Computations by DBI date 8-11-39 checked by LEH date 8-11-39


August 4, 1928
3PM
4PM
5PM
6PM
7PM
8PM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in inches per hour.
Q = Discharge in Second-feet
Rainfall Rate in in/hr.
Accumulated Rainfall in inches 1.21"
Accumulated Runoff Area 5 .76"
Accumulated Runoff Area 3 .47"
Area 5
Area 3
AREA NO. 3
AREA NO. 5
Area (acres) 10.711 5.632
Preceding rain (ins.) .32 ins .32 ins
date began 7-31-28 7-31-28
duration (hours) .66 hours .66 hours
Temperature (max & min)
Soil (major type) 90-68 Miles Abilene Clay Loam 90-68 Miles Abilene Clay Loam
percent of area 100% 100%
Slope, average 0.9% 1.6%
Maximum 1.8% 2.0%
Cover, type Cotton Cotton
height (ft) 1 to 1.5 ft. 1 to 1.5 ft.
date last cultivated
Soil loss (tons per acre)
Remarks: 1 foot fall between level terraces, open ends. Two foot fall between terraces fall of 3 inches per 100 foot on terrace.
AREAS NOS. 3 & 5
(1) Time (Min.)
(2) Inc.t (Min.)
(3) acc.d (in.)
(4) Inc.d (in.)
(5) 60 Inc.d / I-Inc.t in./hr
3:48 PM 0 0 0 0
3:50 2 .04 .04 1.20
4:35 45 .04 0 0
4:40 5 .26 .22 2.64
4:45 5 .52 .26 3.12
4:50 5 .71 .19 2.28
4:55 5 .91 .20 2.40
5:00 5 1.01 .10 1.20
5:05 5 1.10 .09 1.08
5:10 5 1.14 .04 .48
5:15 5 1.16 .02 .240
5:20 5 1.18 .02 .240
5:30 10 1.19 .01 .060
5:40 10 1.20 .01 .060
6:00 20 1.21 .01 .030
SPUR, TEXAS
Sheet 2 of 3 Sheets
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.
STORM No. August 4, 1928.
Plot by LPH date 8-11-39 checked by OBI date 8-11-39
Computations by OBI date 8-11-39 checked by LPH date 8-11-39



	Area No. 6	Area No. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.32 ins	.32 ins
date began	7-31-28	7-31-28
duration (hours)	.66 hours	.66 hours
Temperature (max & min)	90-68	90-68
Soil (major type)	Miles Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	
maximum	2.4%	
Cover, type	Cotton	Cotton
height (ft)	1 to 1.5 ft.	1 to 1.5 ft.
date last cultivated		
Soil-loss (tons per acre)		
Remarks:	Two foot fall between level terraces, open ends.	Level terraces with borders diked so as to hold all of the water that falls on it.

AREAS NOS. 6 & 7

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) 60-ins.d / 1-ins.t
(Min.)	(Min.)	(ins.)	(ins.)	ins./hr
5:45	0	0	0	0
5:50	5	.04	.04	.48
4:35	45	.04	0	0
4:40	5	.26	.22	2.64
4:45	5	.52	.26	3.12
4:50	5	.71	.19	2.28
4:55	5	.91	.20	2.40
5:00	5	1.01	.10	1.20
5:05	5	1.10	.09	1.08
5:10	5	1.14	.04	.48
5:15	5	1.16	.02	.240
5:20	5	1.18	.02	.240
5:30	10	1.19	.01	.060
5:40	10	1.20	.01	.060
6:00	20	1.21	.01	.030

SPUR, TEXAS

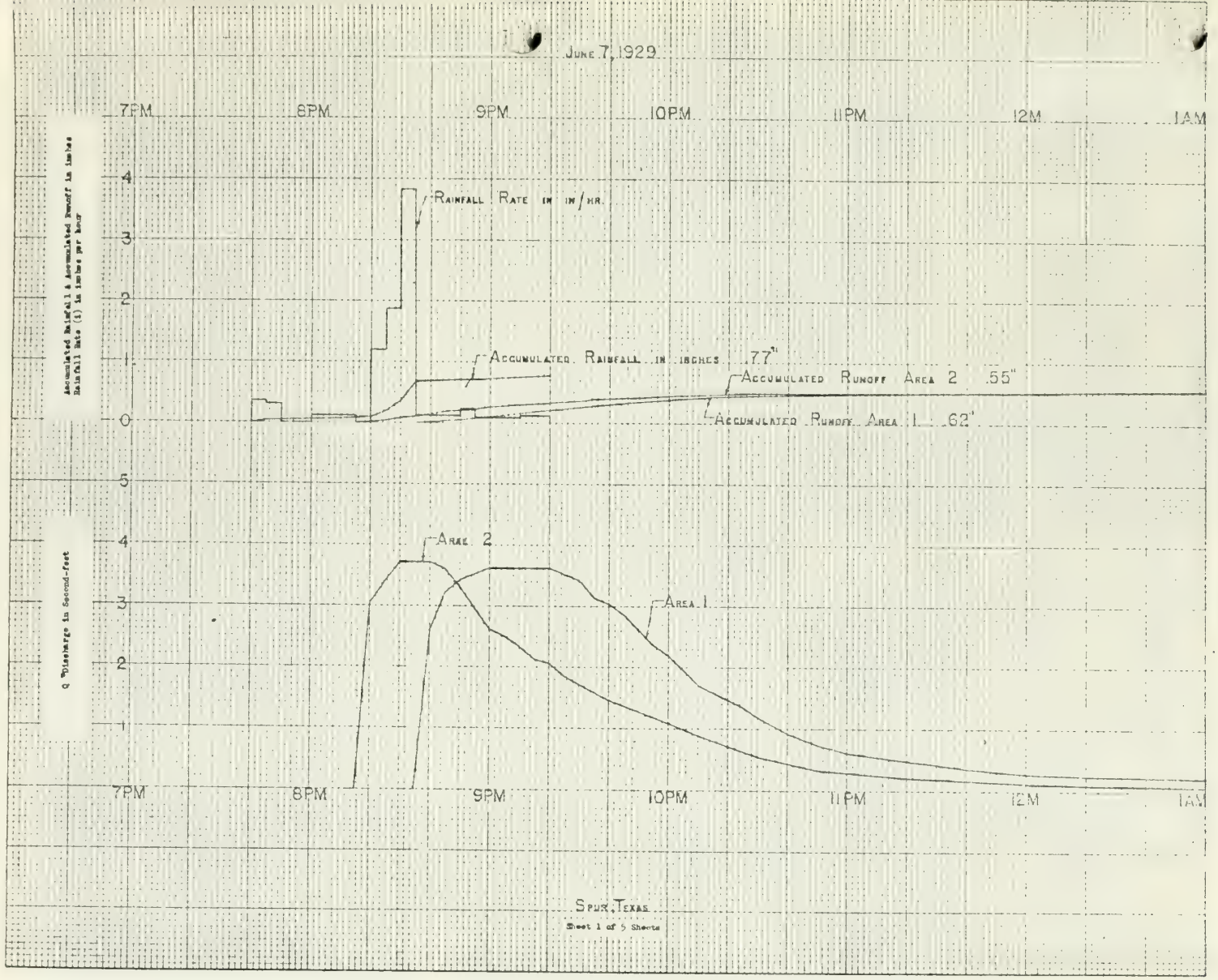
Sheet 3 of 3 Sheets

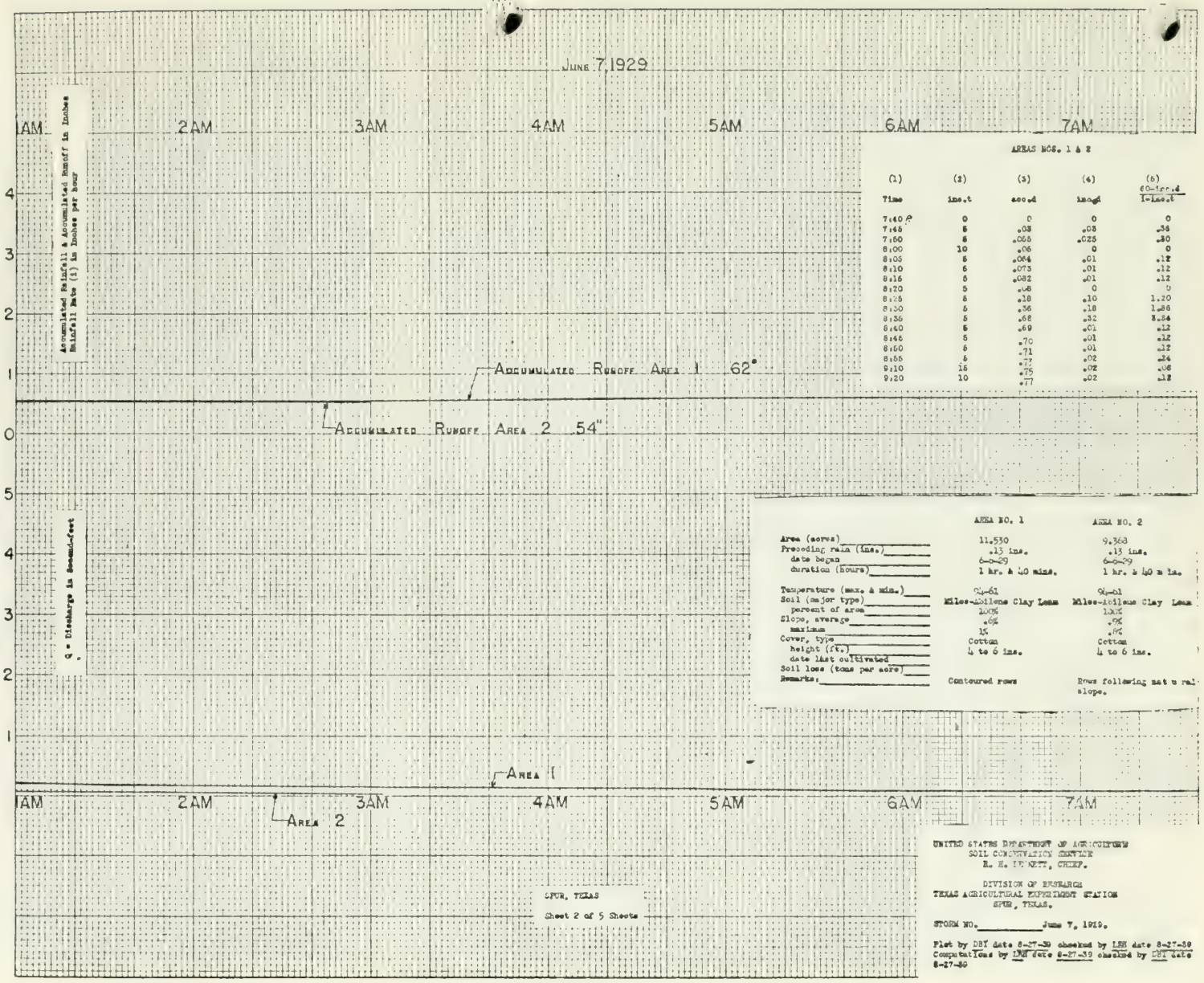
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ August 4, 1928.

Plot by LZH date 8-11-39 checked by DBI date 8-11-39
Computations by DBI date 8-11-39 checked by LZH date 8-11-39


June 7, 1929
7PM
8PM
9PM
10PM
11PM
12M
1AM
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (I) in inches per hour
Rainfall Rate in in/hr.
Accumulated Rainfall in inches .77"
Accumulated Runoff Area 2 .55"
Accumulated Runoff Area 1 .62"
Q Discharge in Second-feet
Area 2
Area 1
Spur, Texas
Sheet 1 of 5 Sheets



AREAS NOS. 1 & 2

(1) Time	(2) ins.t	(3) accd	(4) incd	(5) 60-incd / I-Ins.t
7:40 P	0	0	0	0
7:45	5	.03	.03	.36
7:50	5	.065	.035	.40
8:00	10	.06	0	0
8:05	5	.064	.01	.12
8:10	5	.073	.01	.12
8:15	5	.082	.01	.12
8:20	5	.08	0	0
8:25	5	.18	.10	1.20
8:30	5	.36	.18	1.86
8:35	5	.68	.32	3.84
8:40	5	.69	.01	.12
8:45	5	.70	.01	.12
8:50	5	.71	.01	.12
8:55	5	.77	.02	.24
9:10	15	.75	.02	.08
9:20	10	.77	.02	.12

	AREA NO. 1	AREA NO. 2
Area (acres)	11.530	9.368
Preceding rain (ins.)	.13 ins.	.13 ins.
date began	6-6-29	6-6-29
duration (hours)	1 hr. & 40 mins.	1 hr. & 40 m ins.
Temperature (max. & min.)	94-61	94-61
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.7%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft.)	4 to 6 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured rows	Rows following nat u ral slope.

SPUR, TEXAS

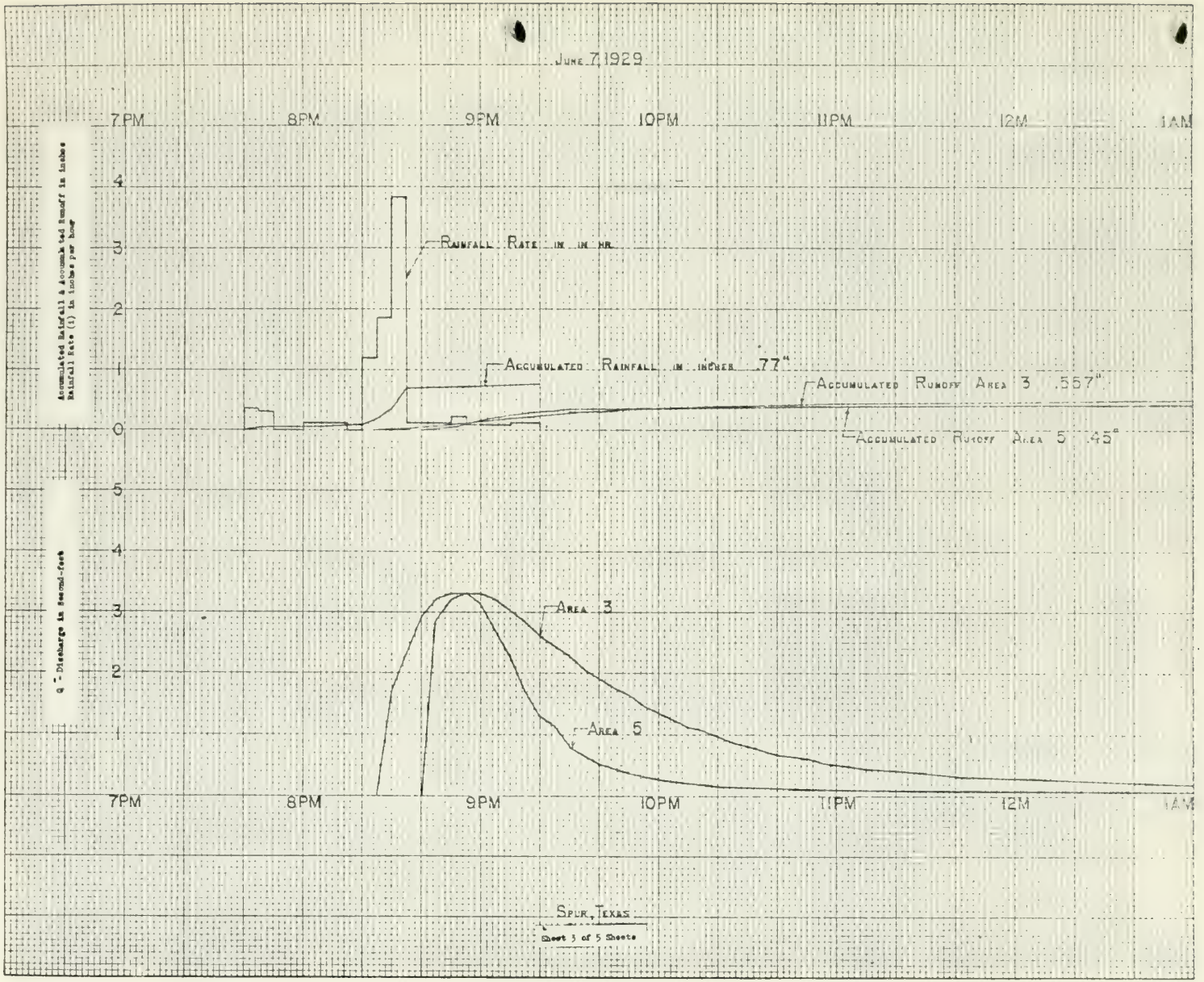
Sheet 2 of 5 Sheets

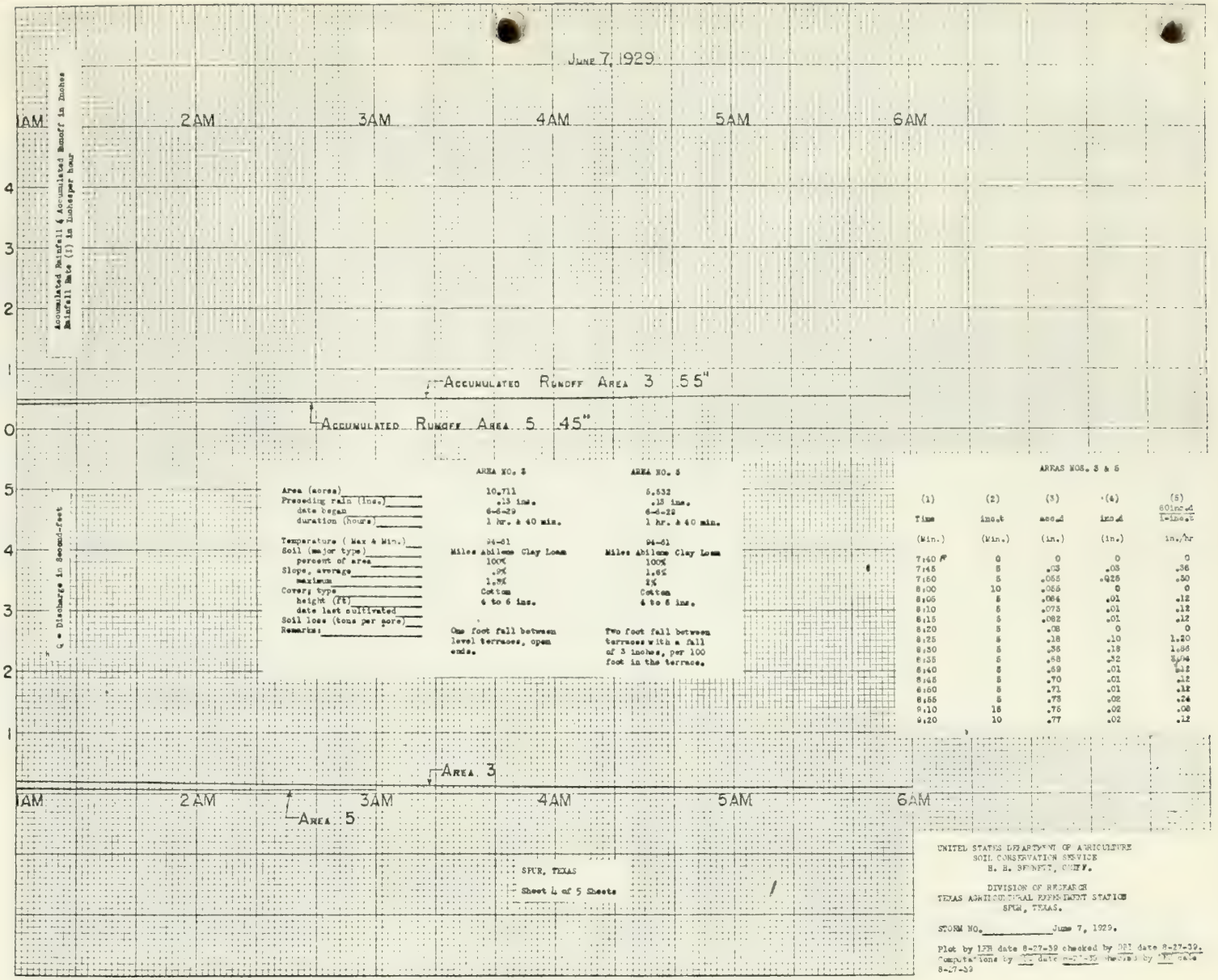
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 7, 1929.

Plot by DBI date 8-27-39 checked by LEH date 8-27-39
Computations by DBI date 8-27-39 checked by DBI date 8-27-39


June 7, 1929
7PM
8PM
9PM
10PM
11PM
12M
1AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per Hour
Rainfall Rate in in Hr.
Accumulated Rainfall in Inches .77"
Accumulated Runoff Area 3 .557"
Accumulated Runoff Area 5 .45"
Q = Discharge in Second-feet
Area 3
Area 5
Spur, Texas
Sheet 3 of 5 Sheets



	Area No. 3	Area No. 5
Area (acres)	10.711	5.532
Preceding rain (ins.)	.13 ins.	.13 ins.
date began	6-6-29	6-6-29
duration (hours)	1 hr. & 40 min.	1 hr. & 40 min.
Temperature (Max & Min.)	94-61	94-61
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.6%
maximum	1.5%	1%
Cover; type	Cotton	Cotton
height (Ft)	4 to 6 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces, open ends.	Two foot fall between terraces with a fall of 3 inches, per 100 foot in the terrace.

AREAS NOS. 3 & 5

(1) Time	(2) Δt	(3) Δd	(4) Δd	(5) 60Δd/Δt
	Inc.t	Inc.d	Inc.d	Inc.hr.
(Min.)	(Min.)	(in.)	(in.)	in./hr
7:40 AM	0	0	0	0
7:45	5	.03	.03	.36
7:50	5	.055	.025	.30
8:00	10	.055	0	0
8:05	5	.084	.01	.12
8:10	5	.073	.01	.12
8:15	5	.082	.01	.12
8:20	5	.08	0	0
8:25	5	.18	.10	1.20
8:30	5	.36	.18	1.44
8:35	5	.48	.12	1.44
8:40	5	.59	.01	.12
8:45	5	.70	.01	.12
8:50	5	.71	.01	.12
8:55	5	.73	.02	.24
9:10	15	.76	.02	.08
9:20	10	.77	.02	.12

SPUR, TEXAS

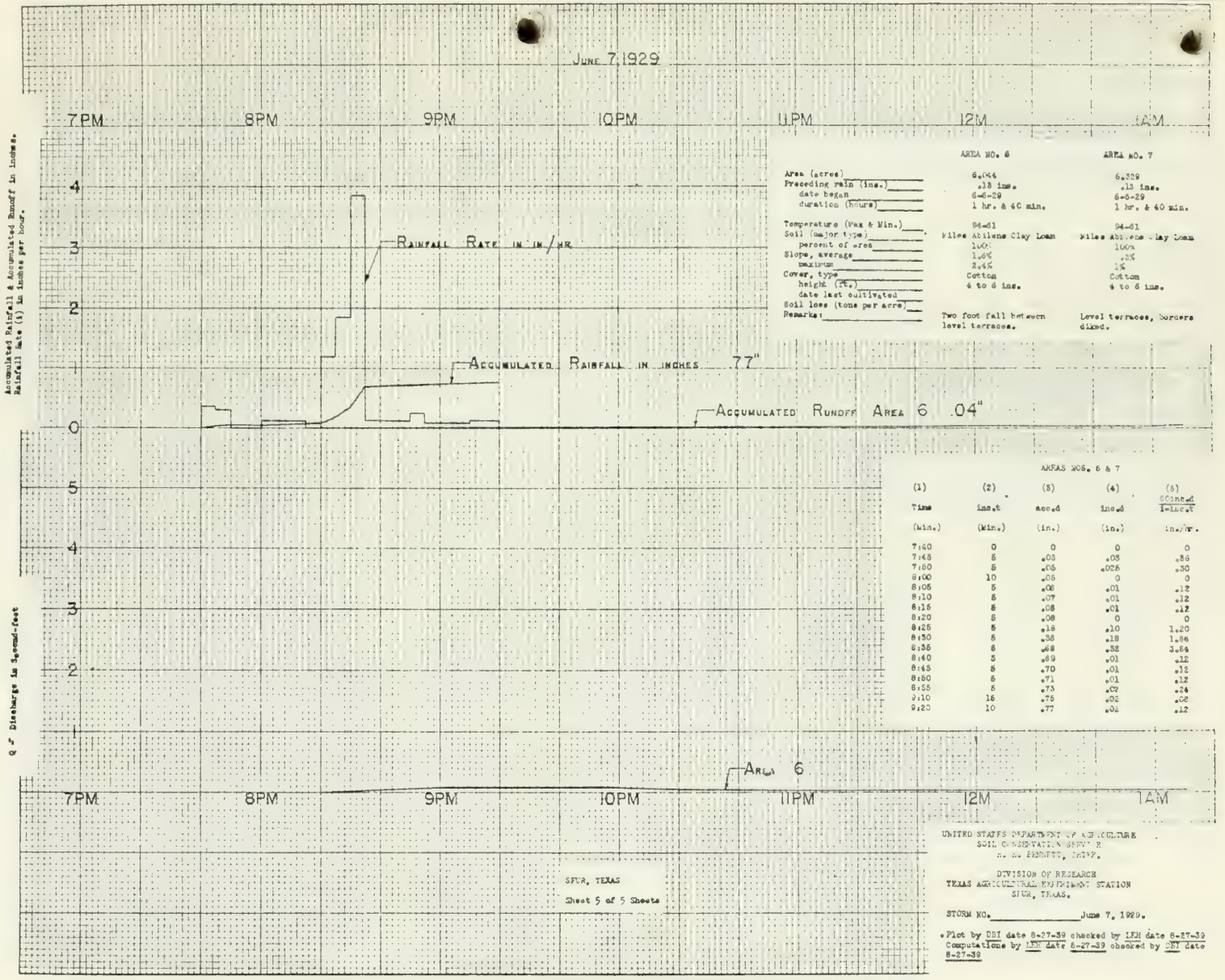
Sheet 4 of 5 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. June 7, 1929.

Plot by LFH date 8-27-39 checked by DH date 8-27-39.
Computations by DC date 8-27-39 checked by [illegible] date 8-27-39



	Area No. 6	Area No. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.13 ins.	.13 ins.
date began	6-6-29	6-6-29
duration (hours)	1 hr. & 40 min.	1 hr. & 40 min.
Temperature (Max & Min.)	94-61	94-61
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft.)	4 to 6 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces.	Level terraces, borders diked.

Areas Nos. 6 & 7

(1) Time	(2) Δt	(3) acc.d	(4) ins.d	(5) $\frac{\Delta \text{ins.d}}{\Delta \text{time}}$
(Min.)	(Min.)	(in.)	(in.)	ins./hr.
7:40	0	0	0	0
7:45	5	.03	.03	.36
7:50	5	.05	.026	.30
8:00	10	.05	0	0
8:05	5	.06	.01	.12
8:10	5	.07	.01	.12
8:15	5	.08	.01	.12
8:20	5	.08	0	0
8:25	5	.18	.10	1.20
8:30	5	.34	.18	1.56
8:35	5	.68	.32	3.84
8:40	5	.69	.01	.12
8:45	5	.70	.01	.12
8:50	5	.71	.01	.12
8:55	5	.73	.02	.24
9:10	15	.75	.02	.08
9:20	10	.77	.02	.12

SPUR, TEXAS

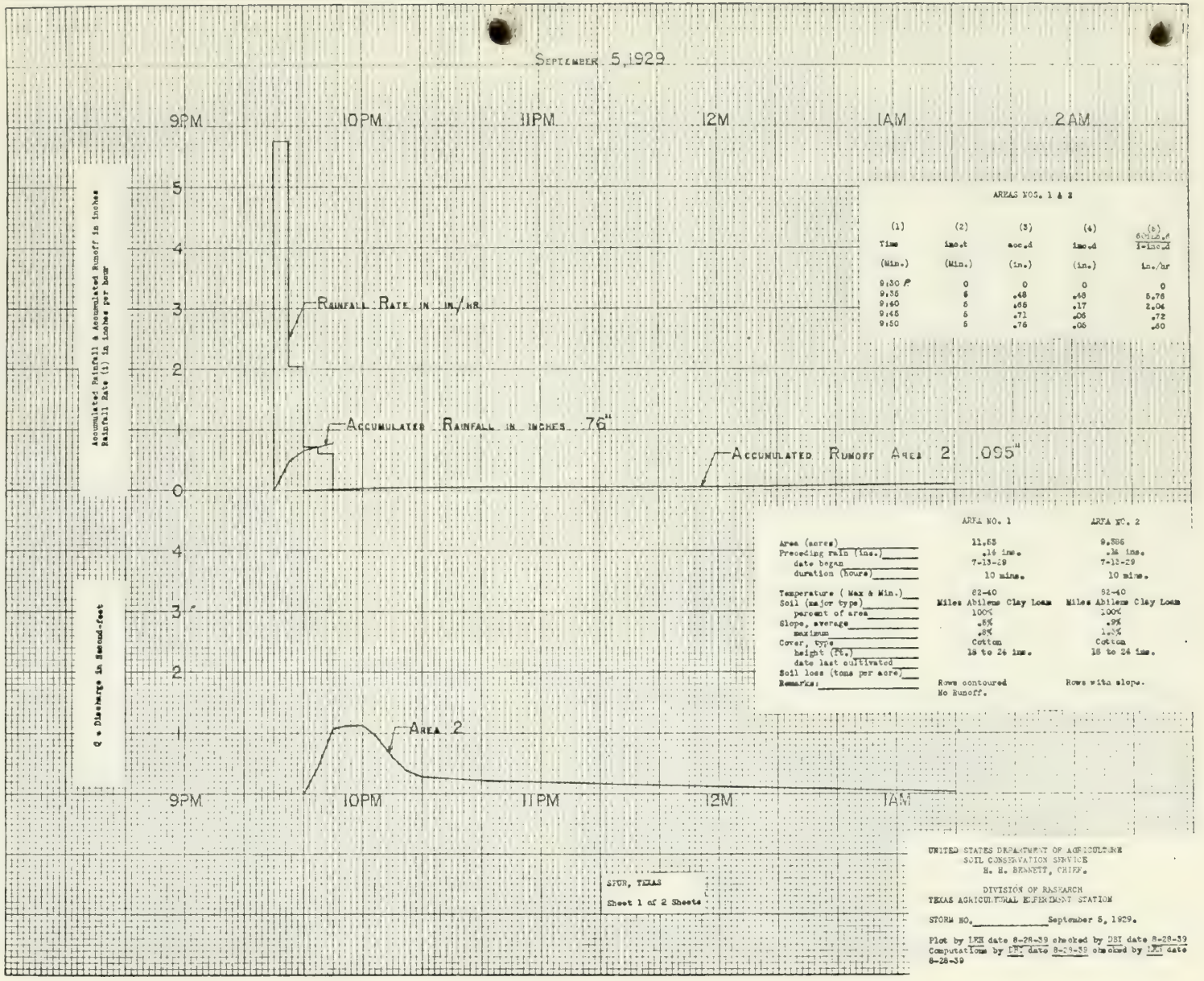
Sheet 5 of 5 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, Chief.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 7, 1929.

Plot by DBI date 8-27-39 checked by LFH date 8-27-39
Computations by LFH date 8-27-39 checked by DBI date 8-27-39



AREAS NOS. 1 & 2

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) 60 i2.d / T-inc.d in./hr
9:30 P	0	0	0	0
9:35	5	.48	.48	5.76
9:40	5	.65	.17	2.04
9:45	5	.71	.06	.72
9:50	5	.76	.05	.60

	AREA NO. 1	AREA NO. 2
Area (acres)	11.83	9.386
Preceding rain (ins.)	.14 ins.	.14 ins.
date began	7-13-29	7-13-29
duration (hours)	10 mins.	10 mins.
Temperature (Max & Min.)	82-40	82-40
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.8%	.9%
maximum	.8%	1.3%
Cover, type	Cotton	Cotton
height (ft.)	18 to 24 ins.	18 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows contoured No Runoff.	Rows with slope.

SPUR, TEXAS

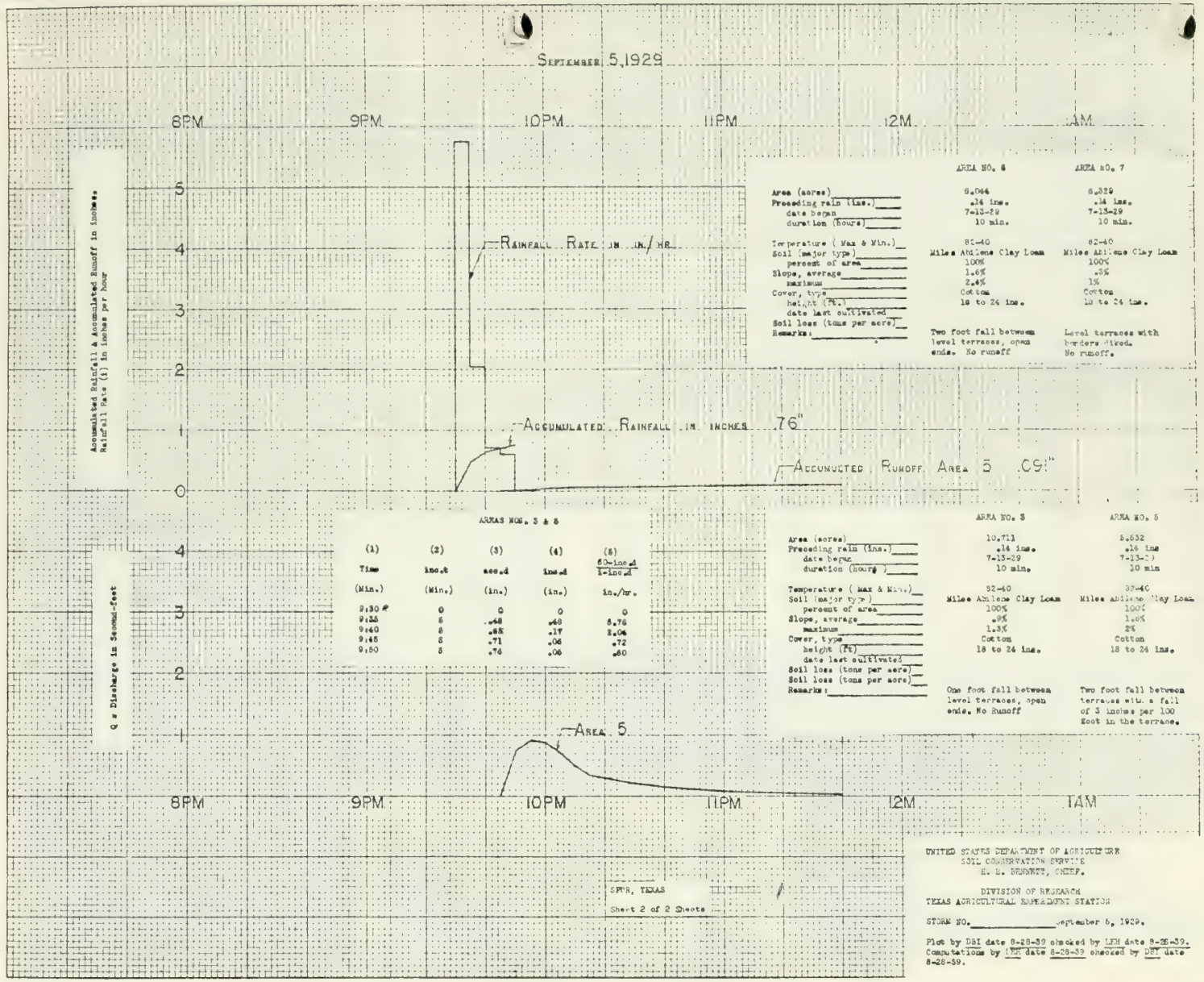
Sheet 1 of 2 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. September 5, 1929.

Plot by LFH date 8-28-39 checked by DBI date 8-28-39
Computations by LFH date 8-28-39 checked by LFH date 8-28-39



AREA NOS. 3 & 5				
(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) 60-inc.d / t-inc.t in./hr.
9:30 #	0	0	0	0
9:35	5	.48	.48	5.76
9:40	5	.65	.17	2.04
9:45	5	.71	.06	.72
9:50	5	.76	.06	.60

	AREA NO. 4	AREA NO. 7
Area (acres)	8.044	8.329
Preceding rain (ins.)	.14 ins.	.14 ins.
date began	7-13-29	7-13-29
duration (hours)	10 min.	10 min.
Temperature (Max & Min.)	82-40	82-40
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.8%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft.)	18 to 24 ins.	18 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces, open ends. No runoff	Level terraces with borders fixed. No runoff.

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	8.632
Preceding rain (ins.)	.14 ins.	.14 ins
date began	7-13-29	7-13-2
duration (hours)	10 min.	10 min
Temperature (Max & Min.)	82-40	82-40
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.8%
Maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (Ft)	18 to 24 ins.	18 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces, open ends. No Runoff	Two foot fall between terraces with a fall of 3 inches per 100 foot in the terrace.

SPUR, TEXAS

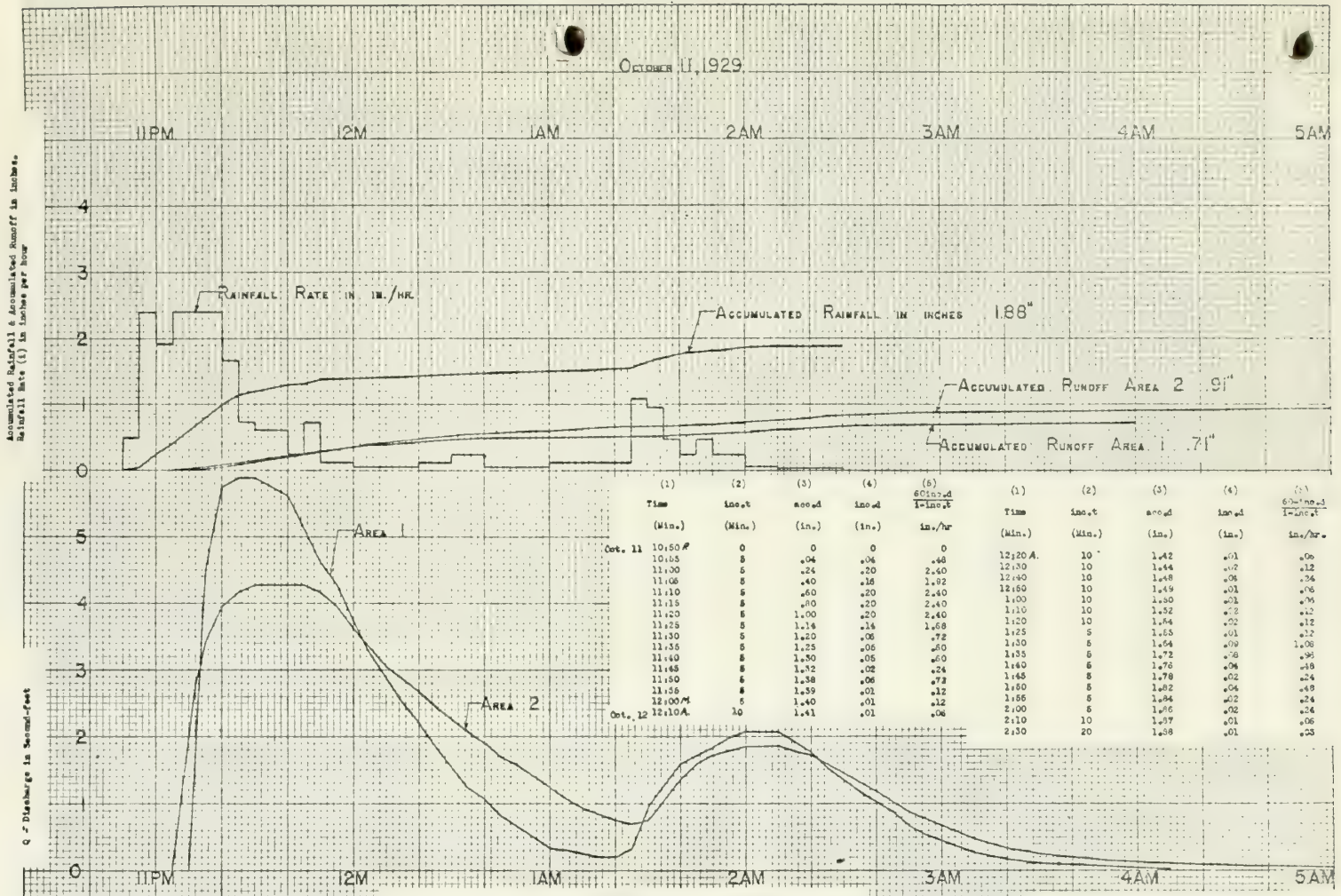
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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. _____ September 5, 1929.

Plot by DBI date 8-28-39 checked by LEM date 9-25-39.
Computations by LEM date 8-28-39 checked by DBI date 8-28-39.



(1) Time	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) 60 inc.d / I-inc.t in./hr
Oct. 11 10:50 P.	0	0	0	0
10:55	5	.04	.04	.48
11:00	5	.24	.20	2.40
11:05	5	.40	.16	1.92
11:10	5	.60	.20	2.40
11:15	5	.80	.20	2.40
11:20	5	1.00	.20	2.40
11:25	5	1.14	.14	1.68
11:30	5	1.20	.06	.72
11:35	5	1.25	.05	.60
11:40	5	1.30	.05	.60
11:45	5	1.32	.02	.24
11:50	5	1.38	.06	.72
11:56	6	1.39	.01	.12
12:00 M.	5	1.40	.01	.12
Oct. 12 12:10 A.	10	1.41	.01	.06

(1) Time	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) 60 inc.d / I-inc.t in./hr.
12:20 A.	10	1.42	.01	.06
12:30	10	1.44	.02	.12
12:40	10	1.48	.04	.24
12:50	10	1.49	.01	.06
1:00	10	1.50	.01	.06
1:10	10	1.52	.02	.12
1:20	10	1.54	.02	.12
1:25	5	1.55	.01	.12
1:30	5	1.64	.09	1.08
1:35	5	1.72	.08	.96
1:40	5	1.76	.04	.48
1:45	5	1.78	.02	.24
1:50	5	1.82	.04	.48
1:55	5	1.84	.02	.24
2:00	5	1.86	.02	.24
2:10	10	1.87	.01	.06
2:30	20	1.88	.01	.03

	AREA NO. 1	AREA NO. 2
Area (acres)	11.63	9.386
Preceding rain (ins.)	.14 ins.	.14 ins.
date began	9-19-29	9-19-29
duration (hours)	30 min.	30 min.
Temperature (Max & Min.)	80-56	80-56
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
Percent of area	100%	100%
Slope, average	.6%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (Ft.)	18 to 24 ins.	18 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows contoured.	Rows with slope.

SPUR, TEXAS

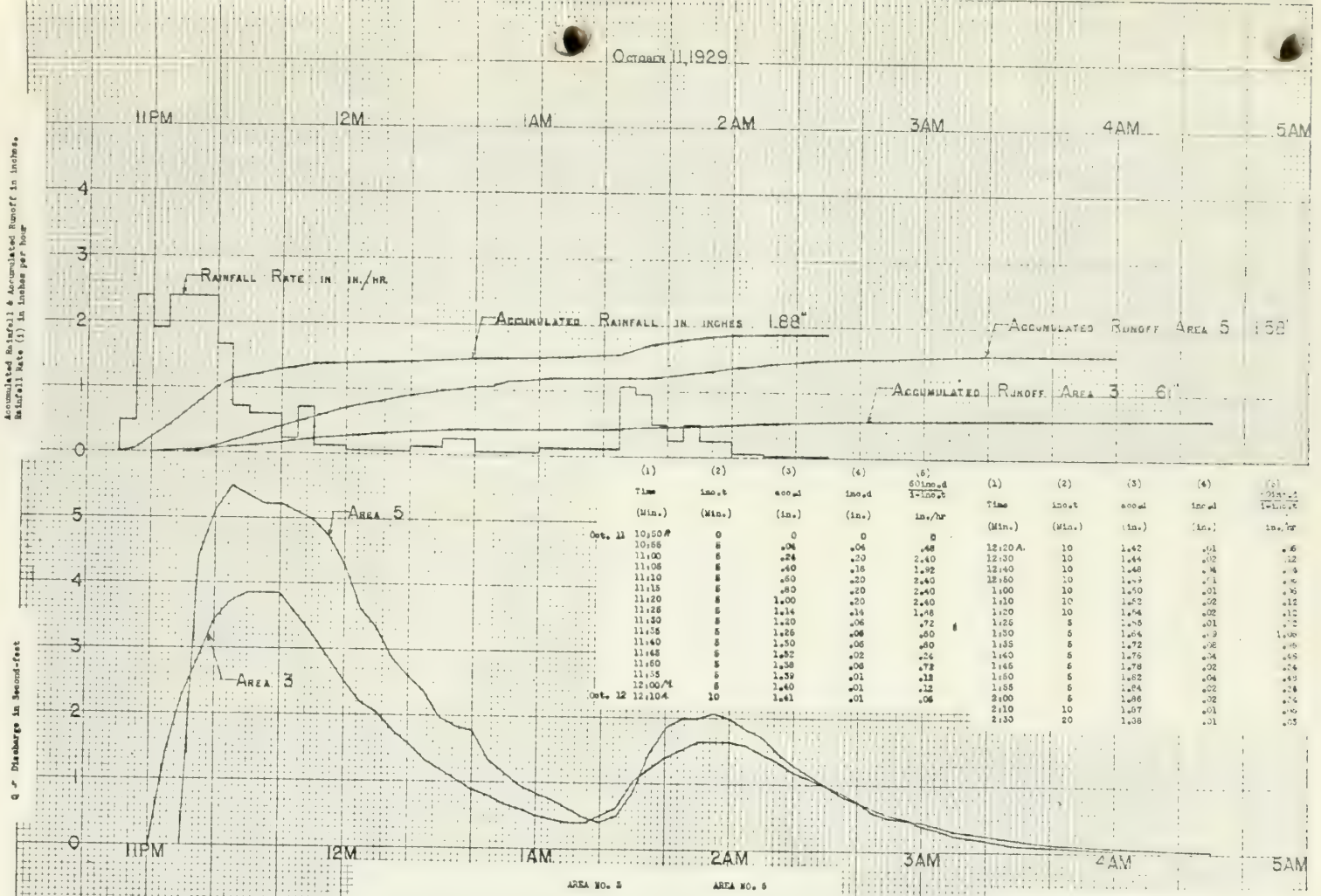
Sheet 1 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. October 11, 1929.

Plot by DSI date 8-28-39 checked by LEH date 8-29-39
Computations by LEH date 8-28-39 checked by .BY date 8-28-39



(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) 60inc.d / 1-inc.t
	(Min.)	(in.)	(in.)	in./hr
Oct. 11 10:50 P	0	0	0	0
10:55	5	.04	.04	.48
11:00	5	.24	.20	2.40
11:05	5	.40	.16	1.92
11:10	5	.60	.20	2.40
11:15	5	.80	.20	2.40
11:20	5	1.00	.20	2.40
11:25	5	1.14	.14	1.68
11:30	5	1.20	.06	.72
11:35	5	1.26	.06	.80
11:40	5	1.30	.06	.80
11:45	5	1.32	.02	.24
11:50	5	1.38	.06	.72
11:55	5	1.39	.01	.12
12:00 M	5	1.40	.01	.12
Oct. 12 12:10 A	10	1.41	.01	.06

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) 60inc.d / 1-inc.t
	(Min.)	(in.)	(in.)	in./hr
12:20 A.	10	1.42	.01	.06
12:30	10	1.44	.02	.12
12:40	10	1.48	.04	.24
12:50	10	1.49	.01	.06
1:00	10	1.50	.01	.06
1:10	10	1.52	.02	.12
1:20	10	1.54	.02	.12
1:25	5	1.56	.01	.12
1:30	5	1.64	.09	1.08
1:35	5	1.72	.08	.96
1:40	5	1.76	.04	.48
1:45	5	1.78	.02	.24
1:50	5	1.82	.04	.48
1:55	5	1.84	.02	.24
2:00	5	1.86	.02	.24
2:10	10	1.87	.01	.06
2:30	20	1.88	.01	.03

	AREA NO. 5	AREA NO. 6
Area (acres)	10.711	8.553
Preceding rain (ins.)	.14 ins.	.14 ins.
date began	9-19-29	9-19-29
duration (hours)	30 min	30 min
Temperature (Max & Min.)	80-56	80-56
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.6%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (ft.)	18 to 24 ins.	18 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces, open ends.	Two foot fall between terraces with a fall of 3 ins per 100 foot in the terraces.

SPUR, TEXAS

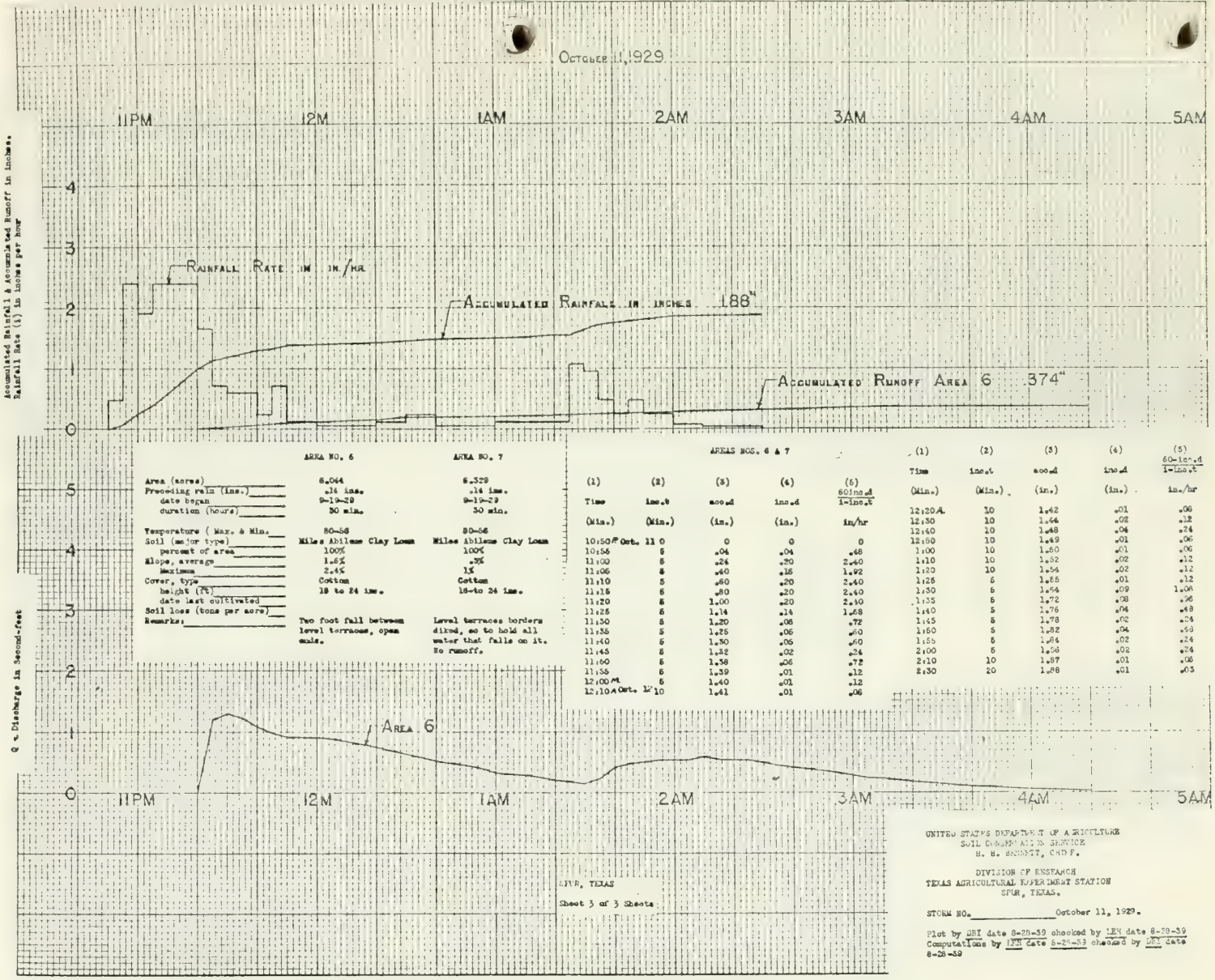
Sheet 2 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. October 11, 1929.

Plot by DBI date 8-28-39 checked by LFH date 8-28-39
Computations by LFH date 8-28-39 checked by DBI date 8-28-39



	Area No. 6	Area No. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.14 ins.	.14 ins.
date began	9-19-29	9-19-29
duration (hours)	30 min.	30 min.
Temperature (Max. & Min.	80-56	80-56
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.5%
Maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (ft)	18 to 24 ins.	18 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces, open ends.	Level terraces borders diked, so to hold all water that falls on it. No runoff.

Areas Nos. 6 & 7

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) $\frac{60 \text{ inc.d}}{1\text{-inc.t}}$
(Min.)	(Min.)	(in.)	(in.)	in/hr
10:50 P Oct. 11	0	0	0	0
10:55	5	.04	.04	.48
11:00	5	.24	.20	2.40
11:05	5	.40	.16	1.92
11:10	5	.60	.20	2.40
11:15	5	.80	.20	2.40
11:20	5	1.00	.20	2.40
11:25	5	1.14	.14	1.68
11:30	5	1.20	.06	.72
11:35	5	1.25	.05	.60
11:40	5	1.30	.05	.60
11:45	5	1.32	.02	.24
11:50	5	1.38	.06	.72
11:55	5	1.39	.01	.12
12:00 M	5	1.40	.01	.12
12:10 A Oct. 12	10	1.41	.01	.06
12:20 A	10	1.42	.01	.06
12:30	10	1.44	.02	.12
12:40	10	1.48	.04	.24
12:50	10	1.49	.01	.06
1:00	10	1.50	.01	.06
1:10	10	1.52	.02	.12
1:20	10	1.54	.02	.12
1:25	5	1.55	.01	.12
1:30	5	1.54	.09	1.08
1:35	5	1.72	.08	.96
1:40	5	1.76	.04	.48
1:45	5	1.78	.02	.24
1:50	5	1.82	.04	.48
1:55	5	1.84	.02	.24
2:00	5	1.86	.02	.24
2:10	10	1.87	.01	.06
2:30	20	1.88	.01	.03

SPUR, TEXAS

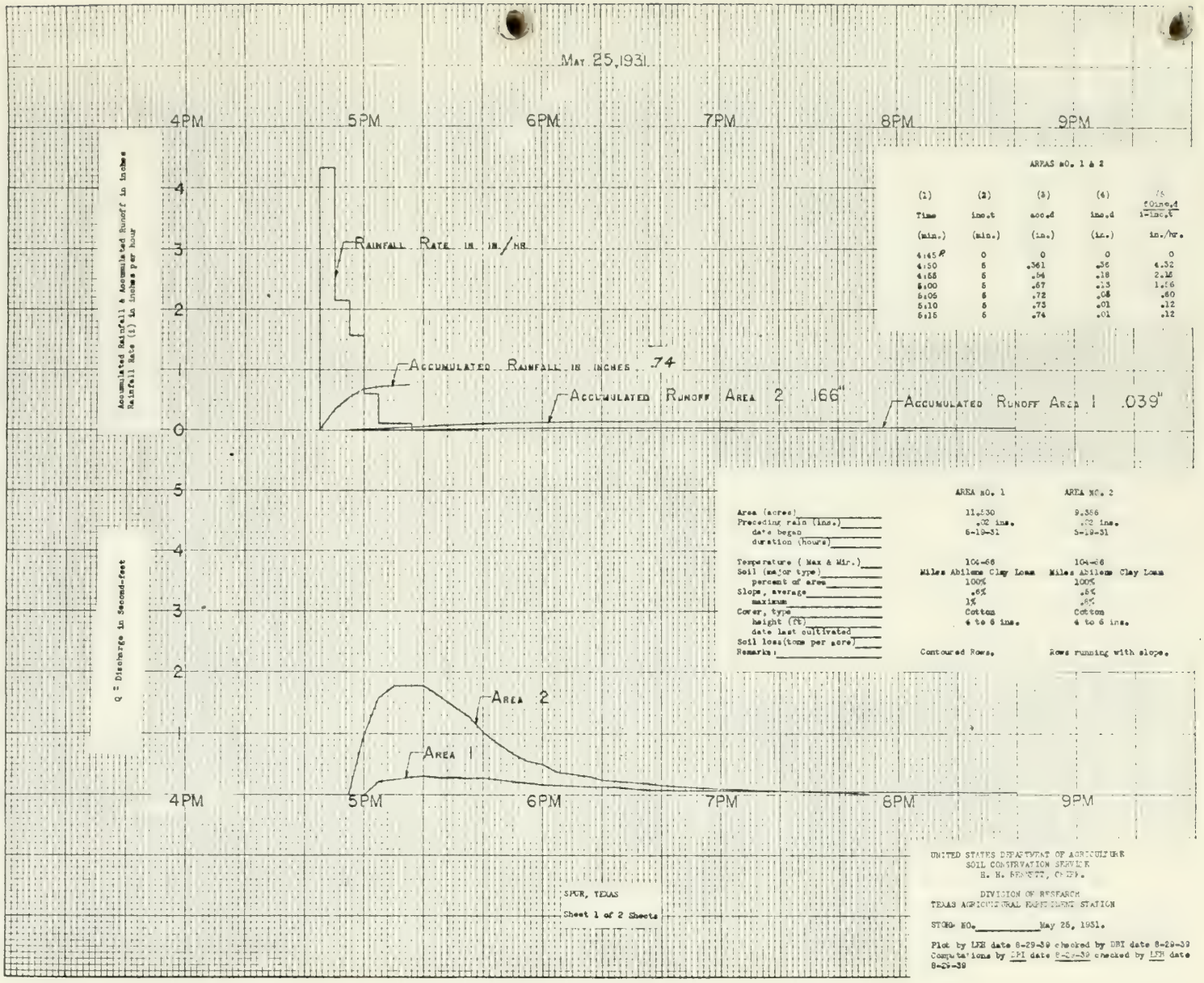
Sheet 3 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ October 11, 1929.

Plot by ORI date 8-28-39 checked by LEM date 8-28-39
Computations by LEM date 8-28-39 checked by ORI date 8-28-39



AREAS NO. 1 & 2

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) Coined i-inc.t in./hr.
4:45 P	0	0	0	0
4:50	5	.361	.36	4.32
4:55	5	.54	.18	2.16
5:00	5	.67	.13	1.56
5:05	5	.72	.05	.60
5:10	5	.73	.01	.12
5:15	5	.74	.01	.12

	AREA NO. 1	AREA NO. 2
Area (acres)	11.430	9.386
Preceding rain (ins.)	.02 ins.	.02 ins.
date began	5-19-31	5-19-31
duration (hours)		
Temperature (Max & Min.)	104-66	104-66
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.8%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	4 to 6 ins.	4 to 6 ins.
date last cultivated		
Soil loss(tons per acre)		
Remarks:	Contoured Rows.	Rows running with slope.

SPUR, TEXAS

Sheet 1 of 2 Sheets

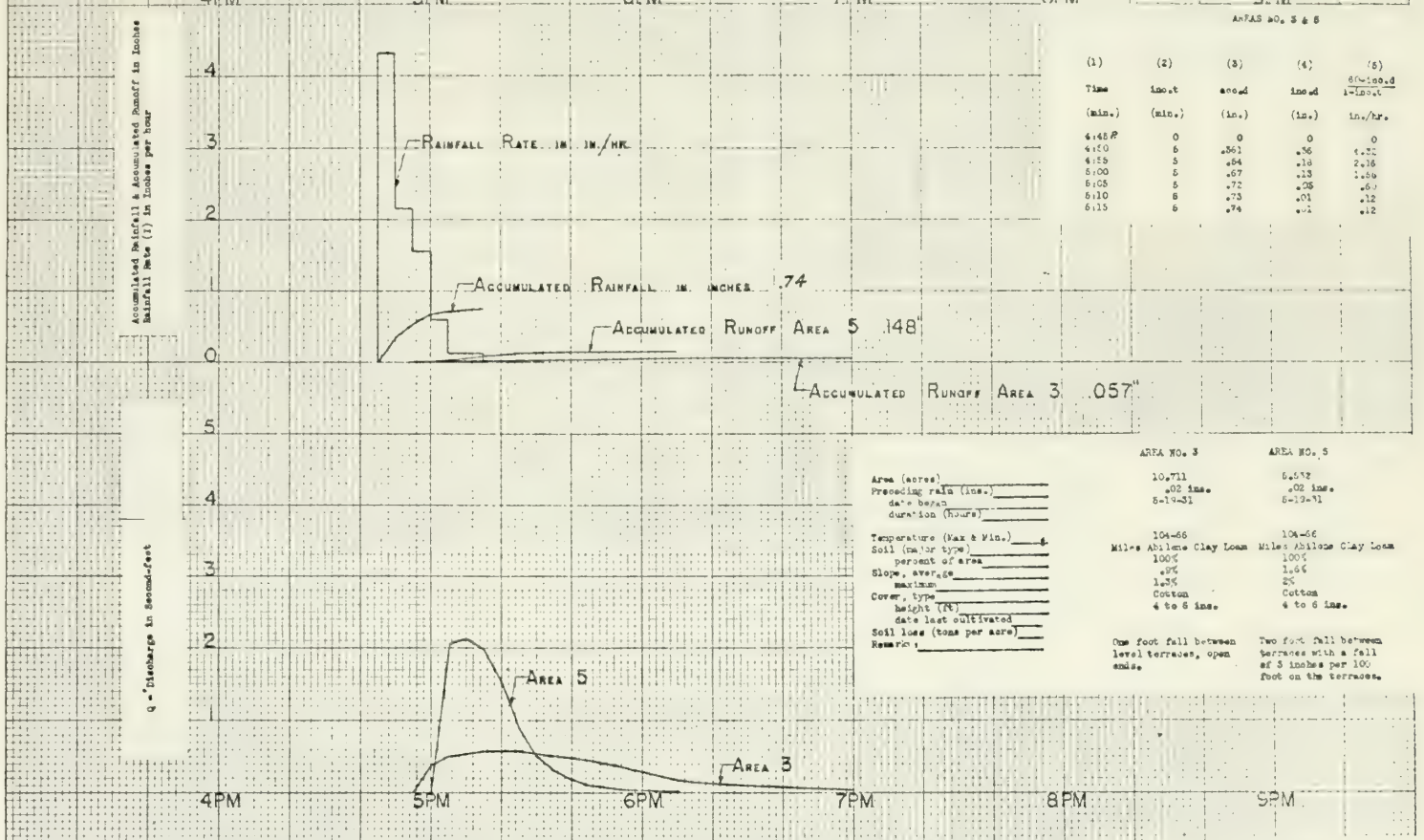
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. _____ May 25, 1931.

Plot by LFH date 8-29-39 checked by DBI date 8-29-39
Computations by DBI date 8-29-39 checked by LFH date 8-29-39

May 25, 1931



AREAS NO. 3 & 5

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \times \text{inc.d}}{\text{inc.t}}$ in./hr.
4:45 P	0	0	0	0
4:50	5	.361	.36	4.32
4:55	5	.64	.18	2.16
5:00	5	.67	.13	1.56
5:05	5	.72	.05	.60
5:10	5	.73	.01	.12
5:15	5	.74	.01	.12

Area (acres)
Preceding rain (ins.)
date began
duration (hours)
Temperature (Max & Min.)
Soil (major type)
percent of area
Slope, average
maximum
Cover, type
height (ft.)
date last cultivated
Soil loss (tons per acre)
Remarks

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.542
Preceding rain (ins.)	.02 ins.	.02 ins.
date began	8-19-31	8-19-31
duration (hours)		
Temperature (Max & Min.)	104-66	104-66
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.8%	1.6%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (ft.)	4 to 6 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks	One foot fall between level terraces, open ends.	Two foot fall between terraces with a fall of 3 inches per 100 foot on the terraces.

SPUR, TEXAS

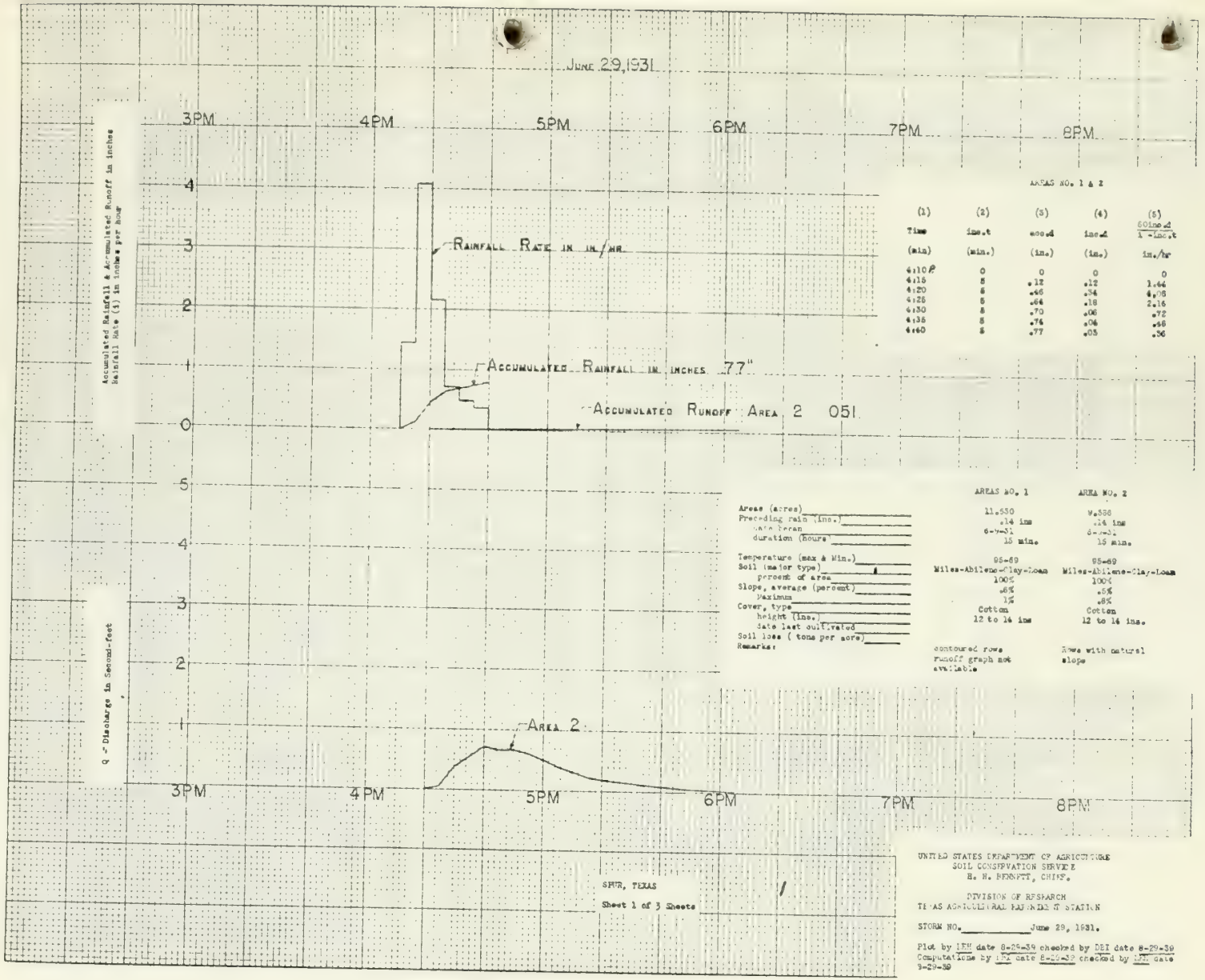
Sheet 2 of 2 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
E. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. May 25, 1931.

Plot by JFR date 8-29-39 checked by DBI date 8-29-39.
Computations by JI date 8-29-39 checked by JI date 8-29-39



AREAS NO. 1 & 2

(1) Time (min)	(2) Δt (min.)	(3) acc.d (in.)	(4) Δacc.d (in.)	(5) 60 Δacc.d / Δt (in./hr)
4:10 P	0	0	0	0
4:15	5	.12	.12	1.44
4:20	5	.46	.34	4.08
4:25	5	.64	.18	2.16
4:30	5	.70	.06	.72
4:35	5	.74	.04	.48
4:40	5	.77	.03	.36

Area (acres)
Preceding rain (ins.)
date beran
duration (Hours)
Temperature (max & Min.)
Soil (major type)
percent of area
Slope, average (percent)
Maximum
Cover, type
height (ins.)
date last cult.vated
Soil loss (tons per acre)
Remarks:

	AREAS NO. 1	AREA NO. 2
	11.550	4.556
	.14 ins	.14 ins
	6-7-31	8-4-31
	15 min.	15 min.
	95-69	95-69
	Miles-Abilene-Clay-Loam	Miles-Abilene-Clay-Loam
	100%	100%
	.6%	.6%
	1%	.8%
	Cotton	Cotton
	12 to 14 ins	12 to 14 ins.
	contoured rows runoff graph not available	Rows with natural slope

SPUR, TEXAS

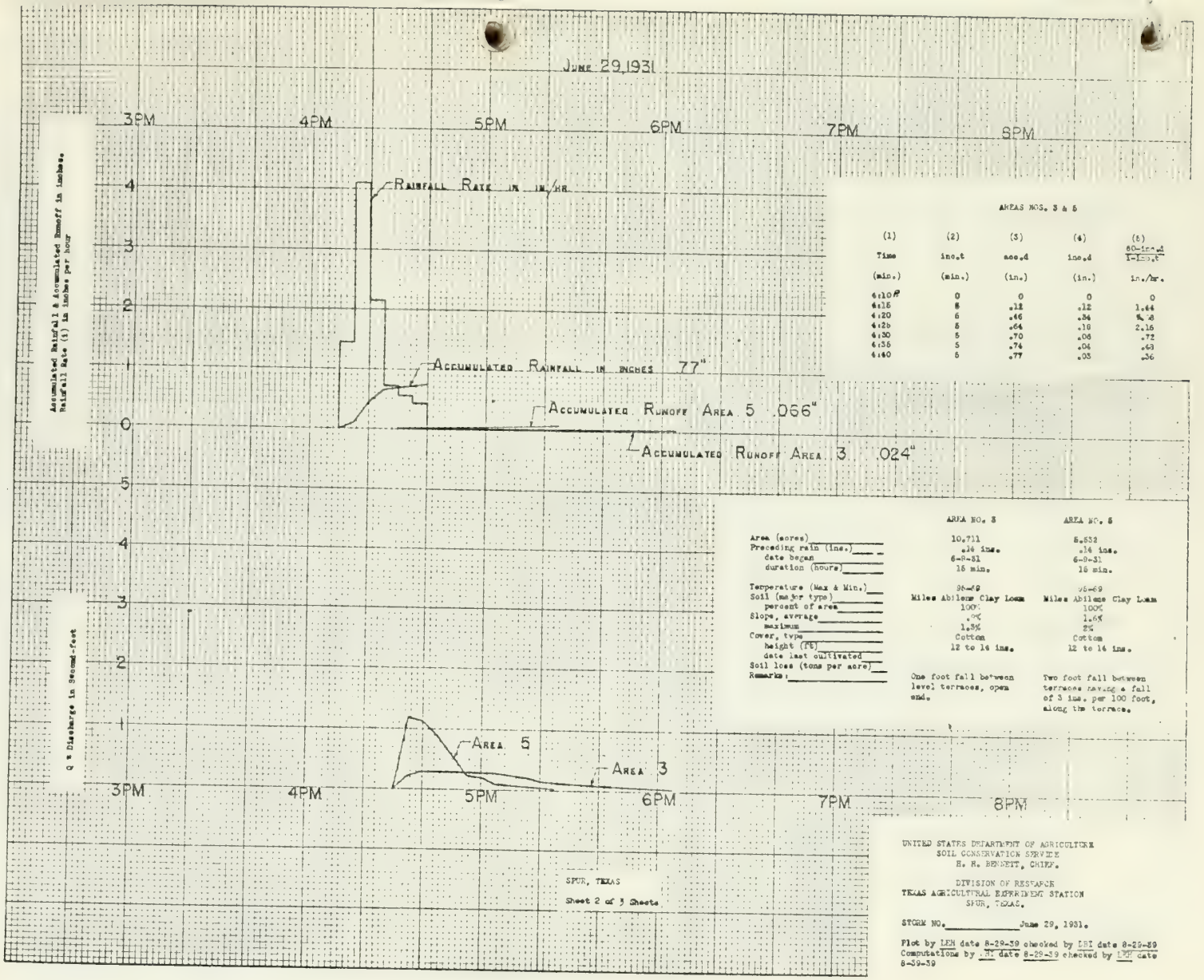
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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. _____ June 29, 1931.

Plot by IEH date 8-29-39 checked by DEI date 8-29-39
Computations by IEH date 8-29-39 checked by IEH date 9-29-39



AREAS NOS. 3 & 5

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \cdot inc.d}{T-1.5.t}$ in./hr.
4:10 P	0	0	0	0
4:15	5	.12	.12	1.44
4:20	5	.46	.34	4.08
4:25	5	.64	.18	2.16
4:30	5	.70	.06	.72
4:35	5	.74	.04	.48
4:40	5	.77	.03	.36

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.532
Preceding rain (ins.)	.16 ins.	.14 ins.
date began	6-8-31	6-9-31
duration (hours)	16 min.	16 min.
Temperature (Max & Min.)	98-69	98-69
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.7%	1.6%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (ft)	12 to 14 ins.	12 to 14 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces, open end.	Two foot fall between terraces having a fall of 3 ins. per 100 foot, along the terrace.

SPUR, TEXAS

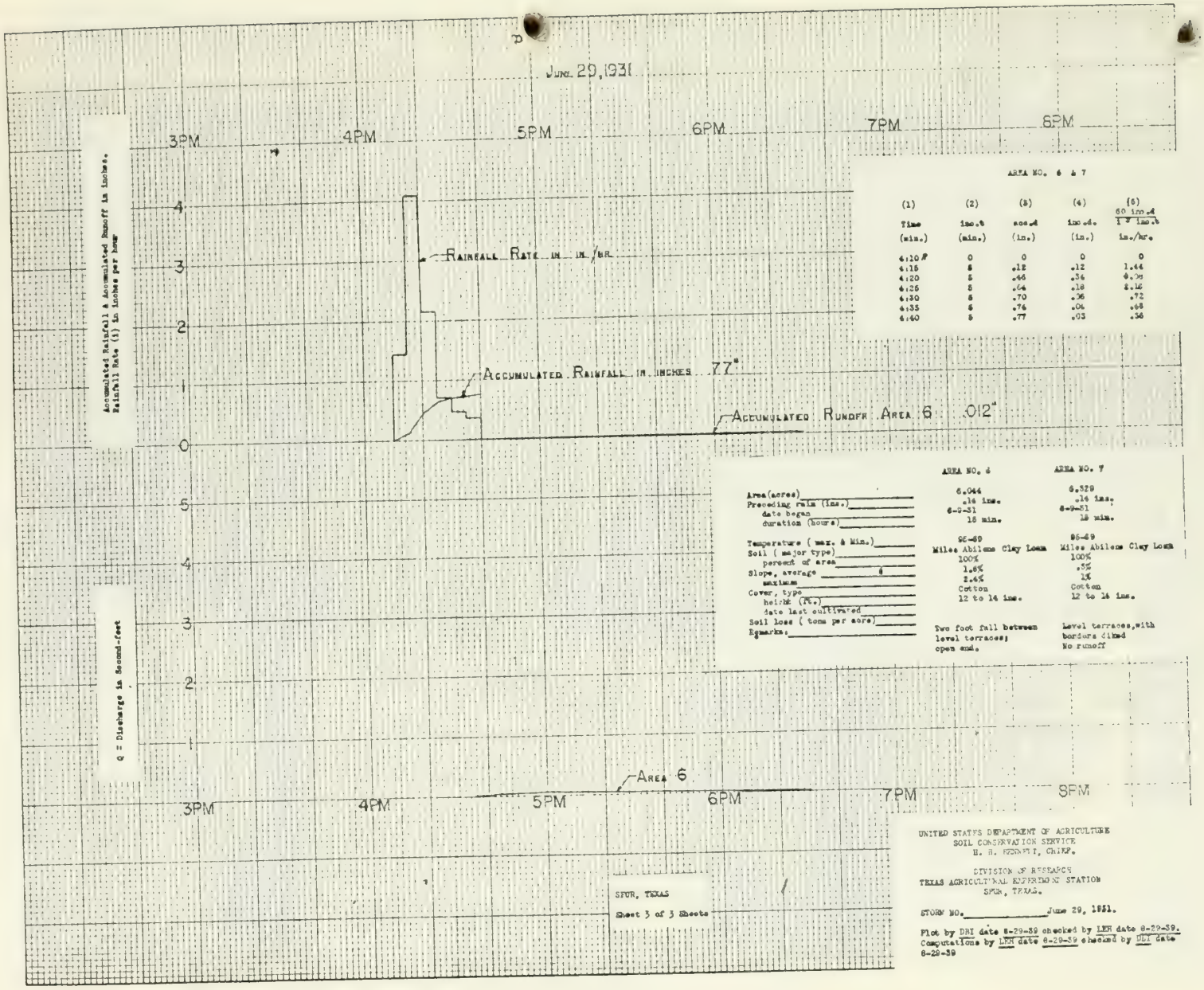
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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. June 29, 1931.

Plot by LEN date 8-29-39 checked by LBI date 8-29-39
Computations by JM date 8-29-39 checked by LEN date 8-29-39



AREA NO. 6 & 7

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d. (in.)	(5) 60 inc.d / i ₹ inc.t in./hr.
4:10 F	0	0	0	0
4:15	5	.12	.12	1.44
4:20	5	.46	.34	4.08
4:25	5	.64	.18	2.16
4:30	5	.70	.06	.72
4:35	5	.74	.04	.48
4:40	5	.77	.03	.36

	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.14 ins.	.14 ins.
date began	6-9-31	6-9-31
duration (hours)	15 min.	15 min.
Temperature (max. & Min.)		
Soil (major type)	98-89 Miles Abilene Clay Loam	98-89 Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (ft.)	12 to 14 ins.	12 to 14 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces; open ends.	Level terraces, with borders dimed No runoff

SPUR, TEXAS

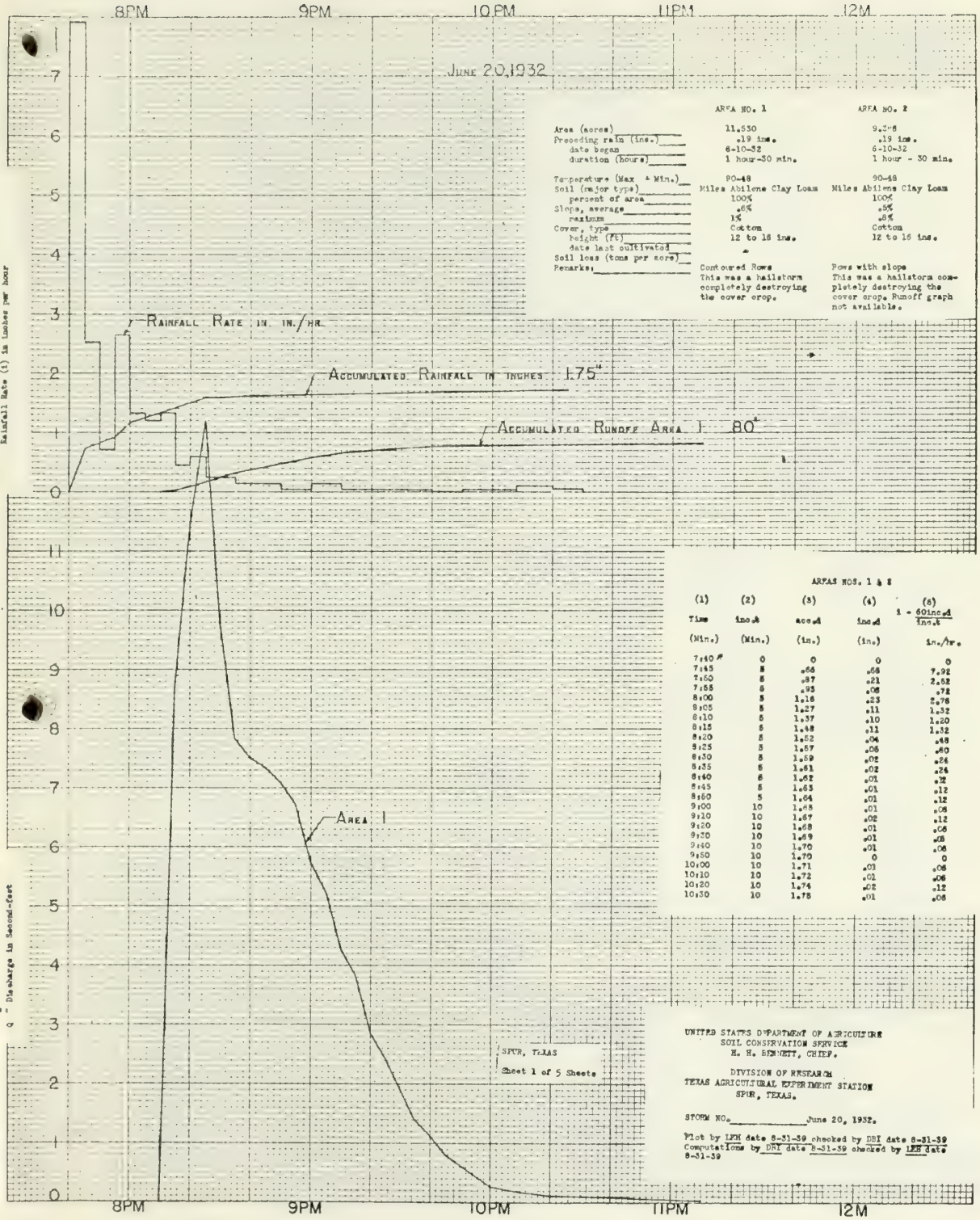
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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, Chief.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. June 29, 1931.

Plot by DRI date 8-29-39 checked by LEH date 8-29-39.
Computations by LEH date 8-29-39 checked by DRI date 8-29-39



	AREA NO. 1	AREA NO. 2
Area (acres)	11.530	9.3-8
Preceding rain (ins.)	.19 ins.	.19 ins.
date began	6-10-32	6-10-32
duration (hours)	1 hour-30 min.	1 hour - 30 min.
Temperature (Max. & Min.)	90-48	90-48
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.8%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	12 to 16 ins.	12 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows This was a hailstorm completely destroying the cover crop.	Rows with slope This was a hailstorm completely destroying the cover crop. Runoff graph not available.

AREAS NOS. 1 & 2

(1) Time	(2) inc.Δ	(3) acc.Δ	(4) inc.d	(5) $1 - \frac{60 \text{inc.d}}{\text{inc.}\Delta}$
(Min.)	(Min.)	(ins.)	(ins.)	in./hr.
7:40 P	0	0	0	0
7:45	5	.64	.56	7.92
7:50	5	.87	.21	2.52
7:55	5	.93	.06	.72
8:00	5	1.16	.23	2.76
8:05	5	1.27	.11	1.32
8:10	5	1.37	.10	1.20
8:15	5	1.48	.11	1.32
8:20	5	1.52	.04	.48
8:25	5	1.57	.06	.60
8:30	5	1.59	.02	.24
8:35	5	1.61	.02	.24
8:40	5	1.62	.01	.12
8:45	5	1.63	.01	.12
8:50	5	1.64	.01	.12
9:00	10	1.68	.01	.06
9:10	10	1.67	.02	.12
9:20	10	1.68	.01	.06
9:30	10	1.69	.01	.06
9:40	10	1.70	.01	.06
9:50	10	1.70	0	0
10:00	10	1.71	.01	.06
10:10	10	1.72	.01	.06
10:20	10	1.74	.02	.12
10:30	10	1.75	.01	.06

SPUR, TEXAS

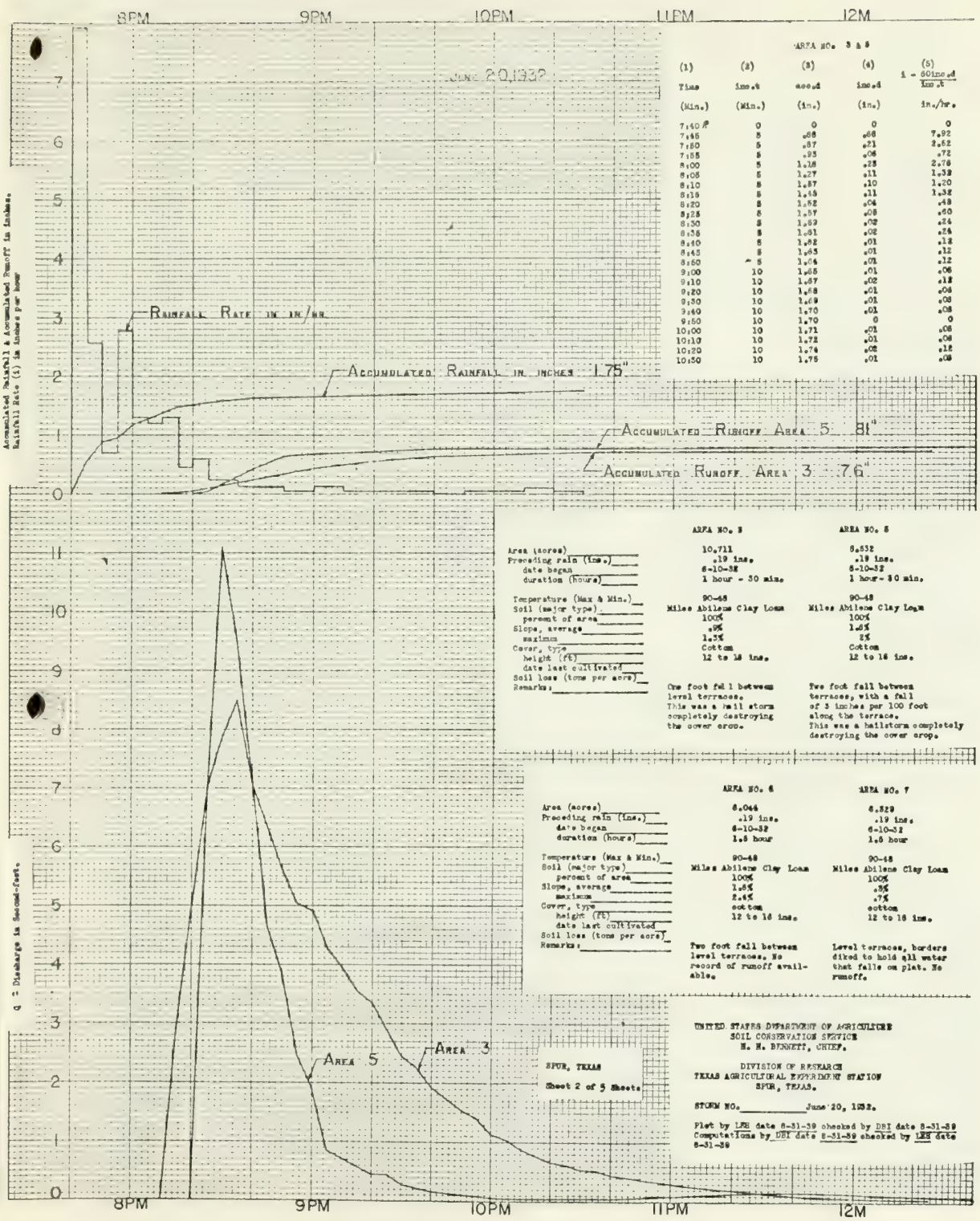
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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 20, 1932.

Plot by LFH date 8-31-39 checked by DBI date 8-31-39
Computations by DBI date 8-31-39 checked by LFH date 8-31-39



AREA NO. 3 & 5

(1) Time (Min.)	(2) ins.t (Min.)	(3) acc.d (in.)	(4) ins.d (in.)	(5) i = 60ins.d / ins.t in./hr.
7:40	0	0	0	0
7:45	5	.66	.66	7.92
7:50	5	.87	.21	2.52
7:55	5	.93	.06	.72
8:00	5	1.16	.23	2.76
8:05	5	1.27	.11	1.32
8:10	5	1.37	.10	1.20
8:15	5	1.48	.11	1.32
8:20	5	1.52	.04	.48
8:25	5	1.57	.05	.60
8:30	5	1.59	.02	.24
8:35	5	1.61	.02	.24
8:40	5	1.62	.01	.12
8:45	5	1.63	.01	.12
8:50	5	1.64	.01	.12
9:00	10	1.65	.01	.06
9:10	10	1.67	.02	.12
9:20	10	1.68	.01	.06
9:30	10	1.69	.01	.06
9:40	10	1.70	.01	.06
9:50	10	1.70	0	0
10:00	10	1.71	.01	.06
10:10	10	1.72	.01	.06
10:20	10	1.74	.02	.12
10:30	10	1.75	.01	.06

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	8.532
Preceding rain (ins.)	.19 ins.	.19 ins.
date began	6-10-32	6-10-32
duration (hours)	1 hour - 30 min.	1 hour - 30 min.
Temperature (Max & Min.)	90-48	90-48
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.6%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (ft)	12 to 16 ins.	12 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces. This was a hail storm completely destroying the cover crop.	Two foot fall between terraces, with a fall of 3 inches per 100 foot along the terrace. This was a hailstorm completely destroying the cover crop.

	AREA NO. 6	AREA NO. 7
Area (acres)	8.044	8.529
Preceding rain (ins.)	.19 ins.	.19 ins.
date began	6-10-32	6-10-32
duration (hours)	1.6 hour	1.6 hour
Temperature (Max & Min.)	90-48	90-48
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.3%
maximum	2.6%	.7%
Cover, type	cotton	cottom
height (ft)	12 to 16 ins.	12 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces. No record of runoff available.	Level terraces, borders diked to hold all water that falls on plat. No runoff.

SPUR, TEXAS

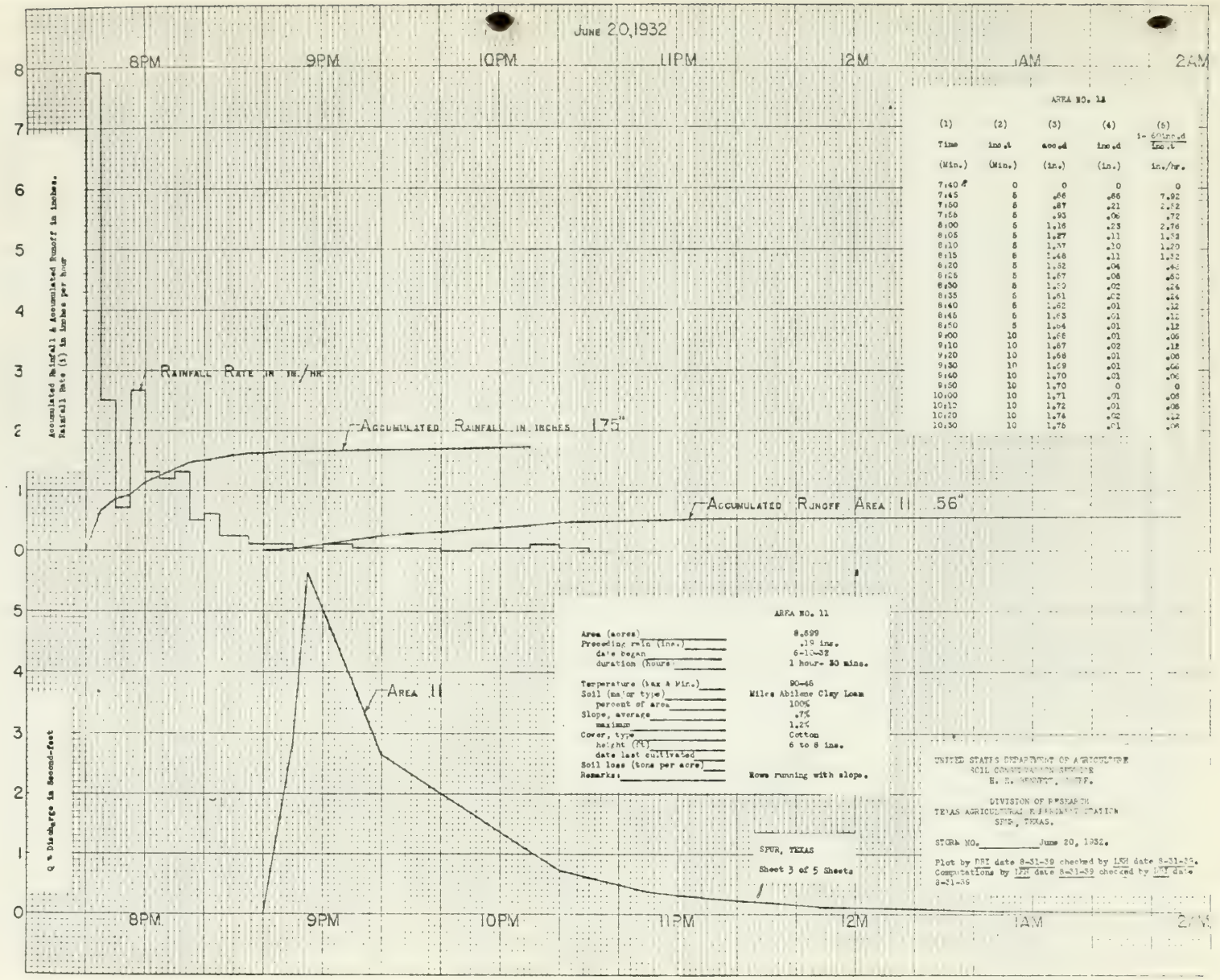
Sheet 2 of 5 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 20, 1932.

Plot by LEH date 8-31-39 checked by DBI date 8-31-39
Computations by DBI date 8-31-39 checked by LEH date 8-31-39



AREA NO. 11

(1) Time	(2) inc. t	(3) acc'd	(4) inc. d	(5) i = 60 inc. d / inc. t
(Min.)	(Min.)	(in.)	(in.)	in./hr.
7:40	0	0	0	0
7:45	5	.66	.66	7.92
7:50	5	.87	.21	2.52
7:55	5	.93	.06	.72
8:00	5	1.16	.23	2.76
8:05	5	1.27	.11	1.32
8:10	5	1.37	.10	1.20
8:15	5	1.48	.11	1.32
8:20	5	1.52	.04	.48
8:25	5	1.57	.05	.60
8:30	5	1.59	.02	.24
8:35	5	1.61	.02	.24
8:40	5	1.62	.01	.12
8:45	5	1.63	.01	.12
8:50	5	1.64	.01	.12
9:00	10	1.65	.01	.06
9:10	10	1.67	.02	.12
9:20	10	1.68	.01	.06
9:30	10	1.69	.01	.06
9:40	10	1.70	.01	.06
9:50	10	1.70	0	0
10:00	10	1.71	.01	.06
10:10	10	1.72	.01	.06
10:20	10	1.74	.02	.12
10:30	10	1.75	.01	.06

AREA NO. 11

Area (acres)	8.899
Preceding rain (ins.)	.19 ins.
date began	6-18-32
duration (hours)	1 hour- 30 mins.
Temperature (Max & Min.)	90-66
Soil (major type)	Miles Abilene Clay Loam
percent of area	100%
Slope, average	.7%
maximum	1.2%
Cover, type	Cotton
height (ft.)	6 to 8 ins.
date last cultivated	
Soil loss (tons per acre)	
Remarks:	Rows running with slope.

SPUR, TEXAS

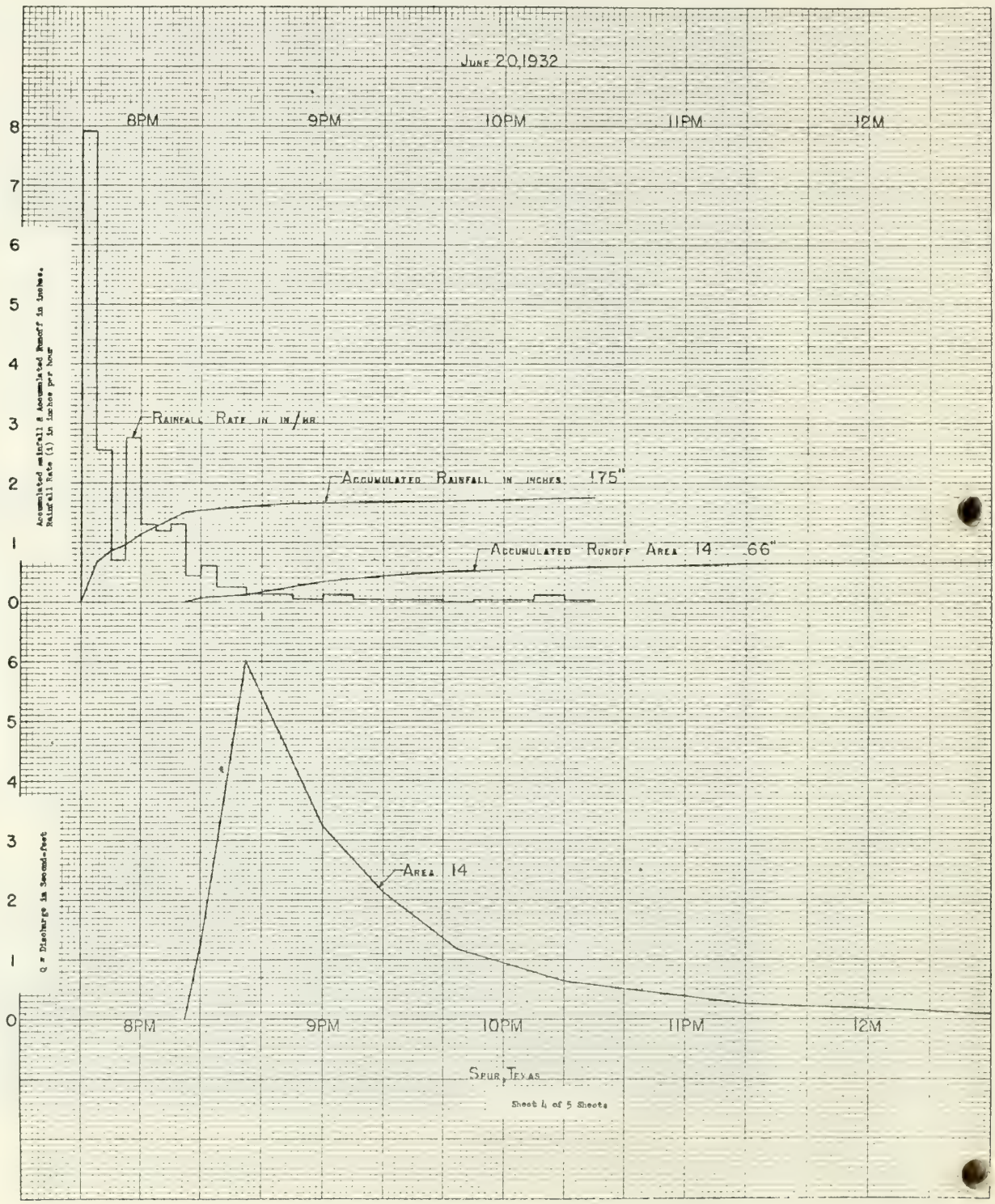
Sheet 3 of 5 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

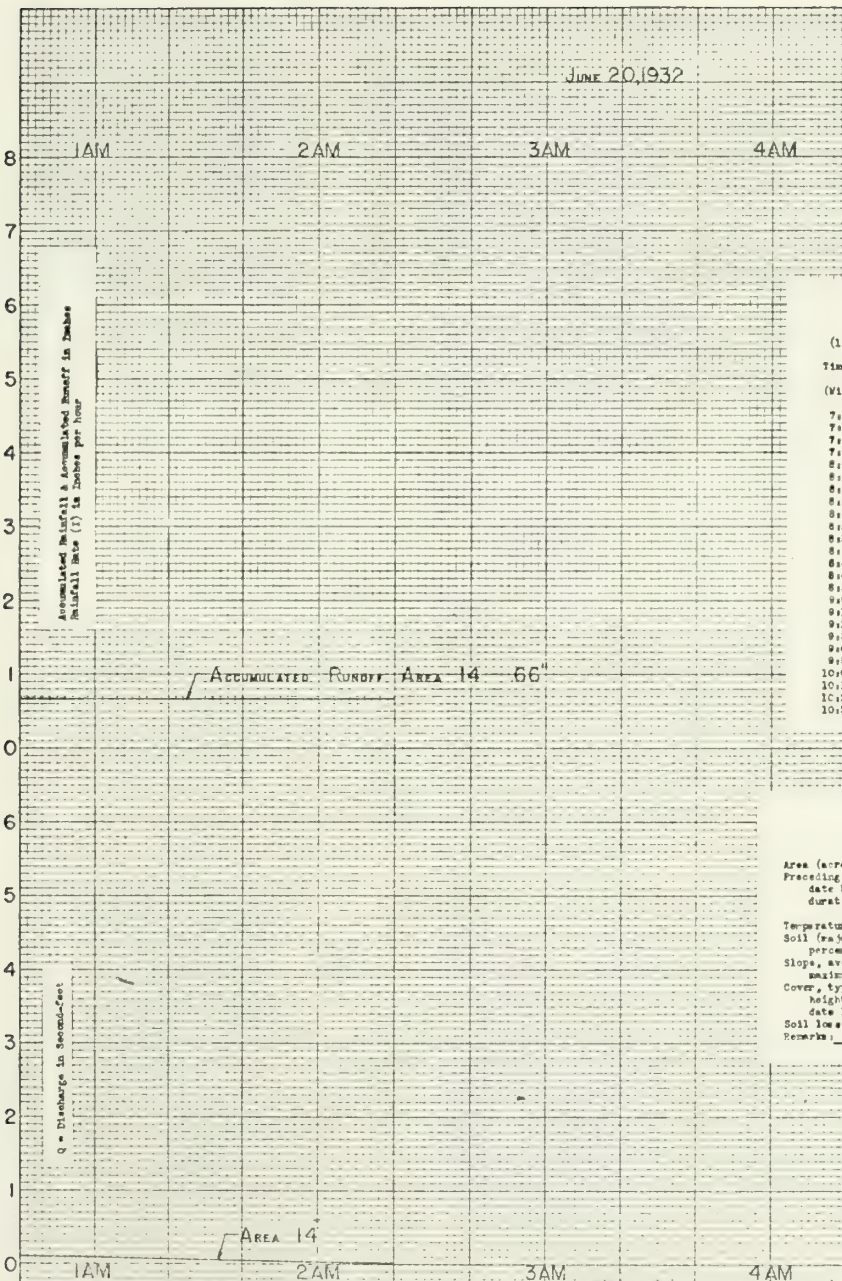
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

SCS-RA NO. _____ June 20, 1932.

Plot by DRZ date 8-31-39 checked by LSH date 8-31-39.
Computations by LSH date 8-31-39 checked by DRZ date 8-31-39


June 20,1932
8PM
9PM
10PM
11PM
12M
Accumulated rainfall & Accumulated Runoff in Inches.
Rainfall Rate (I) in inches per hour
Rainfall Rate in in./hr.
Accumulated Rainfall in inches .175"
Accumulated Runoff Area 14 .66"
Q = Discharge in Second-Feet
Area 14
8PM
9PM
10PM
11PM
12M
Spur, Texas
Sheet 4 of 5 Sheets

JUNE 20,1932



AREA NO. 14

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
7:40 #	0	0	0	0
7:45	5	.66	.66	7.92
7:50	5	.87	.21	2.52
7:55	5	.93	.06	.72
8:00	5	1.16	.23	2.76
8:05	5	1.27	.11	1.32
8:10	5	1.37	.10	1.20
8:15	5	1.48	.11	1.32
8:20	5	1.52	.04	.48
8:25	5	1.57	.05	.60
8:30	5	1.59	.02	.24
8:35	5	1.61	.02	.24
8:40	5	1.62	.01	.12
8:45	5	1.63	.01	.12
8:50	5	1.64	.01	.12
9:00	10	1.66	.01	.06
9:10	10	1.67	.02	.12
9:20	10	1.68	.01	.06
9:30	10	1.69	.01	.06
9:40	10	1.70	.01	.06
9:50	10	1.70	0	0
10:00	10	1.71	.01	.06
10:10	10	1.72	.01	.06
10:20	10	1.74	.02	.12
10:30	10	1.76	.01	.06

AREA NO. 14

Area (acres)	8.852
Preceding rain (inc.)	.19 ins.
date began	6-10-32
duration (hours)	1 hour- 30 mins.
Temperature (Max & Min.)	90-48
Soil (major type)	Miles Abilene Clay Loam
percent of area	100%
Slope, average	0.6%
maximum	0.7%
Cover, type	Sorghum
height (ft.)	
date last cultivated	
Soil loss (tons per acre)	
Remarks:	Rows running with slope

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

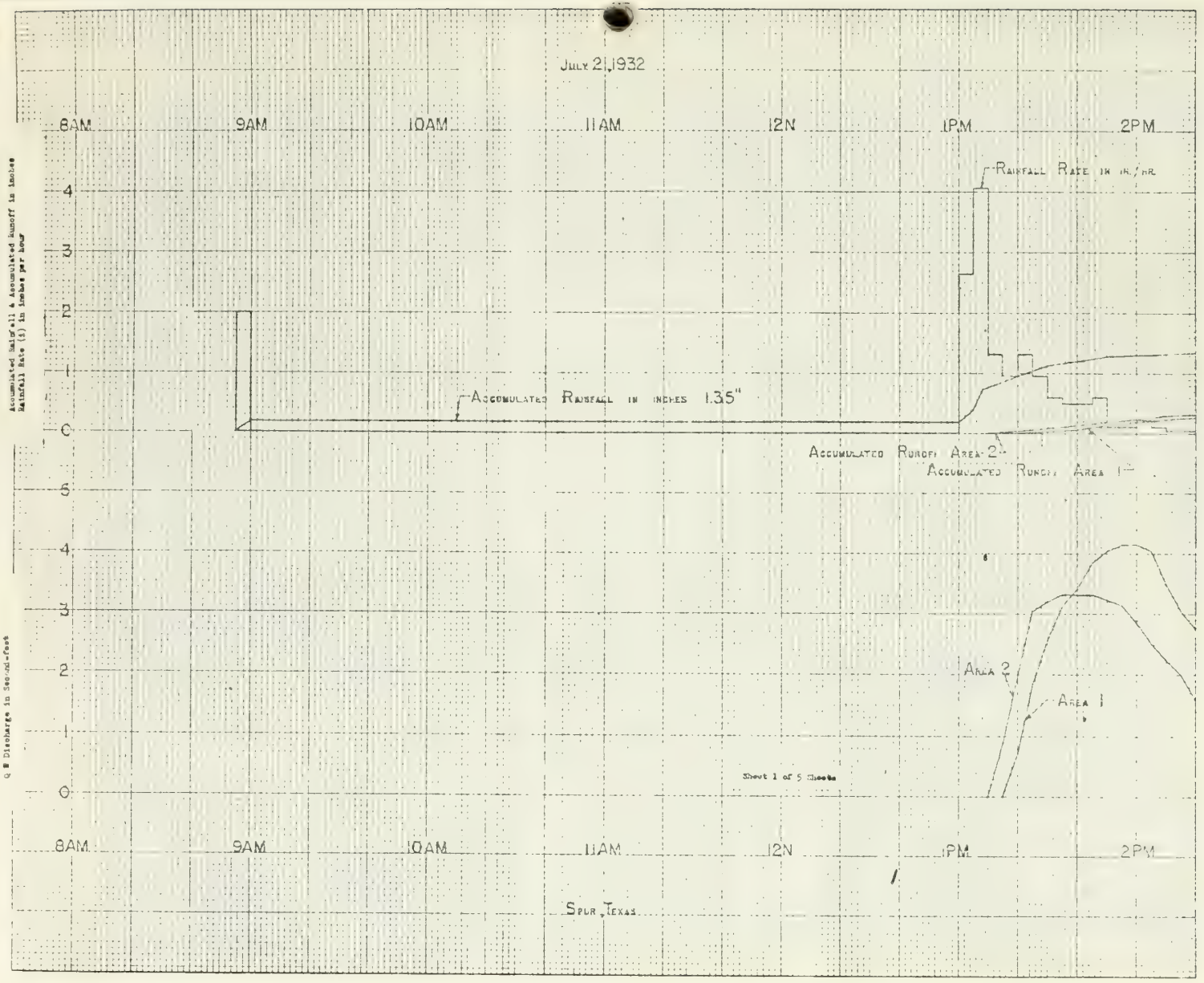
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORY NO. _____ June 20, 1932.

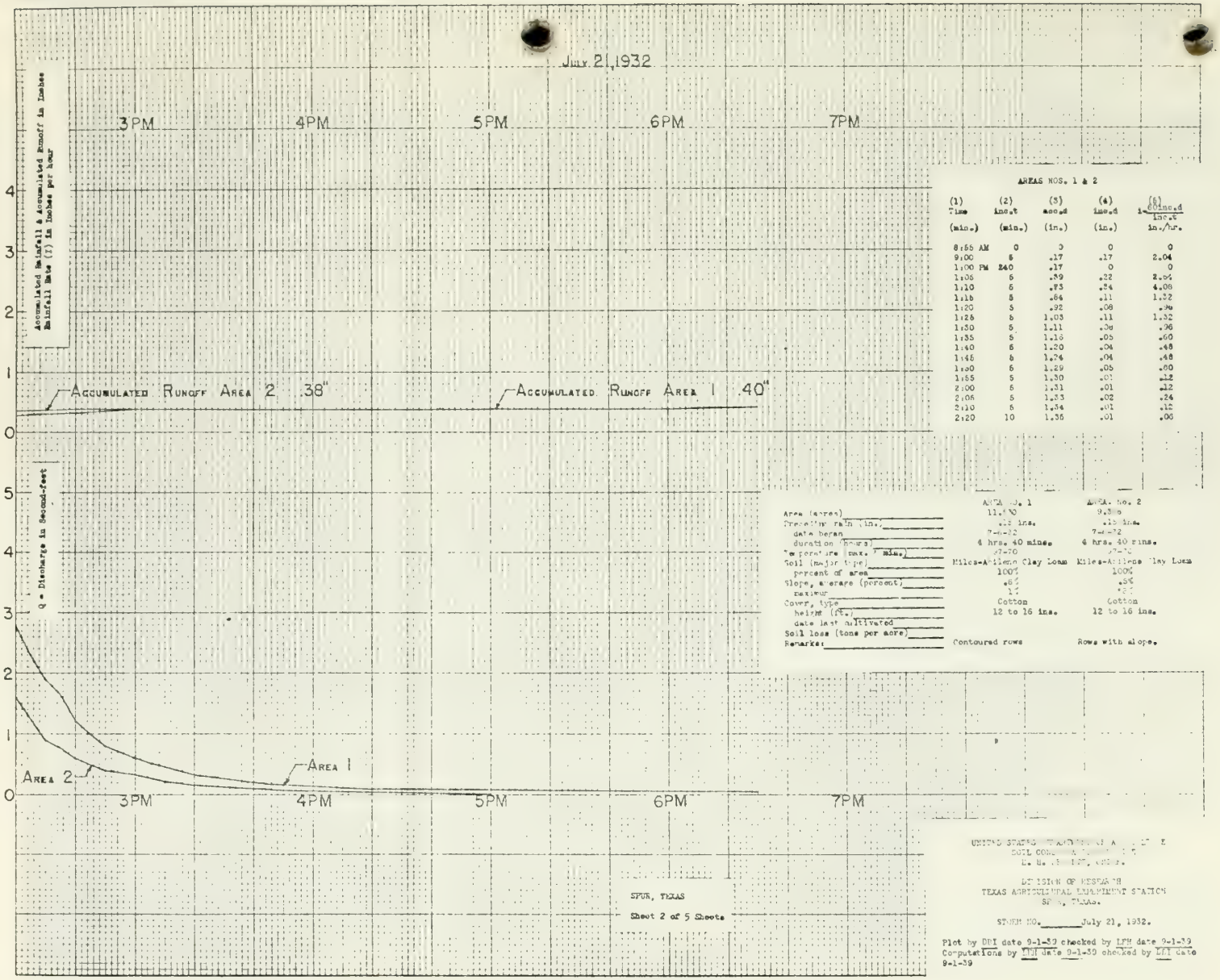
Plot by DBI date 8-31-39 checked by LFH date 8-31-39.
Computations by LFH date 8-31-39 checked by DBI date 8-31-39

SPUR, TEXAS

Sheet 5 of 5 Sheets



Sheet 1 of 5 Sheets



AREAS NOS. 1 & 2

(1) Time (min.)	(2) Incr.t (min.)	(3) Accd (in.)	(4) Incr.d (in.)	(5) Computed i = Incr.d / Incr.t in./hr.
8:55 AM	0	0	0	0
9:00	5	.17	.17	2.04
1:00 PM	240	.17	0	0
1:05	5	.39	.22	2.64
1:10	5	.73	.34	4.08
1:15	5	.84	.11	1.32
1:20	5	.92	.08	.96
1:25	5	1.03	.11	1.32
1:30	5	1.11	.08	.96
1:35	5	1.16	.05	.60
1:40	5	1.20	.04	.48
1:45	5	1.24	.04	.48
1:50	5	1.29	.05	.60
1:55	5	1.30	.01	.12
2:00	5	1.31	.01	.12
2:05	5	1.33	.02	.24
2:10	5	1.34	.01	.12
2:20	10	1.36	.01	.06

	AREA No. 1	AREA No. 2
Area (acres)	11.490	9.380
Preceding rain (in.)	.12 ins.	.15 ins.
date began	7-6-32	7-6-32
duration (hours)	4 hrs. 40 mins.	4 hrs. 40 mins.
Temperature (max. 7 min.)	97-70	97-70
Soil (major type)	Miles-Atlemo Clay Loam	Miles-Atlemo Clay Loam
percent of area	100%	100%
Slope, average (percent)	.6%	.5%
maximum	1%	.5%
Cover, type	Cotton	Cotton
height (ft.)	12 to 16 ins.	12 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured rows	Rows with slope.

SPUR, TEXAS

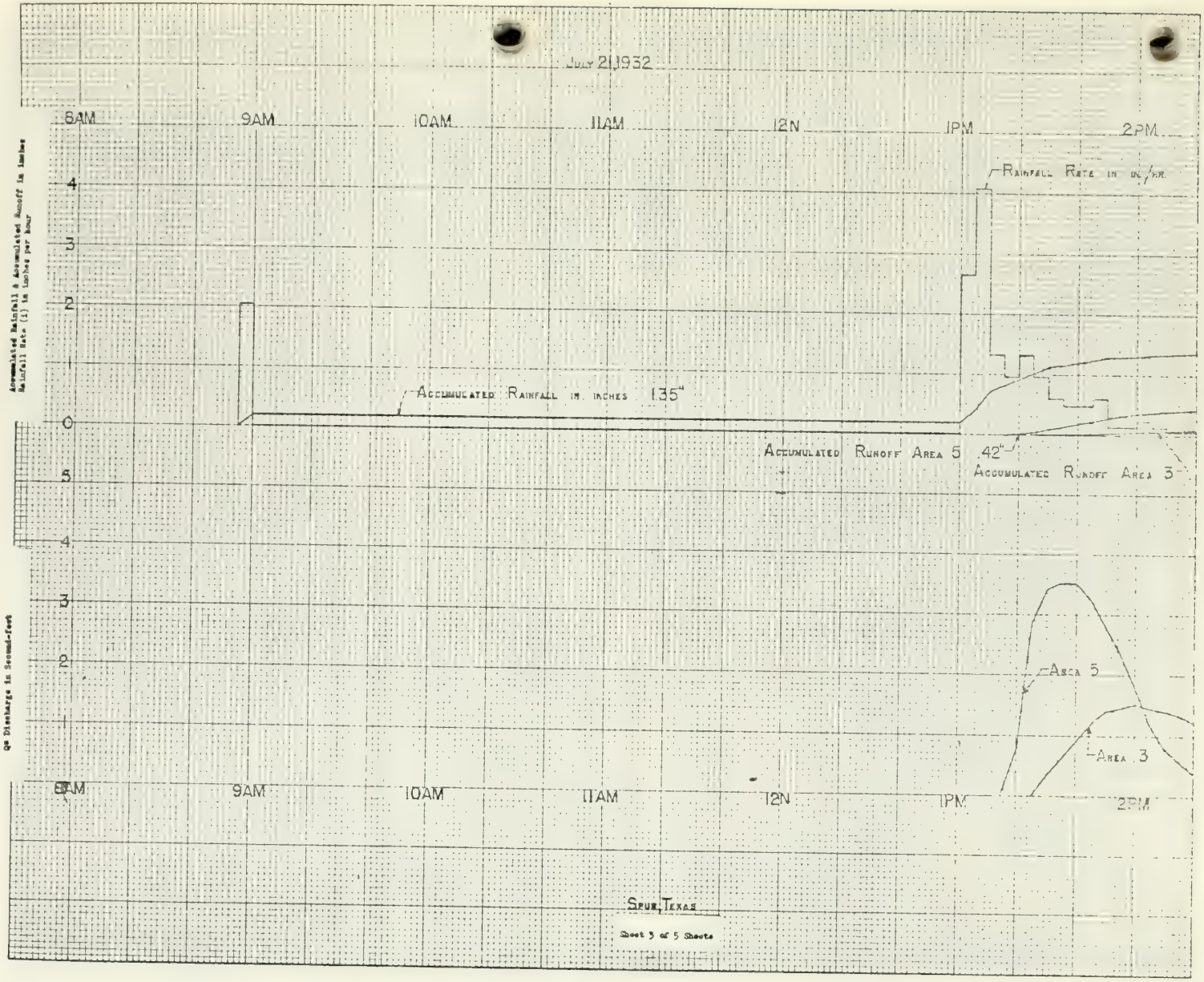
Sheet 2 of 5 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
D. D. Smith, Chief

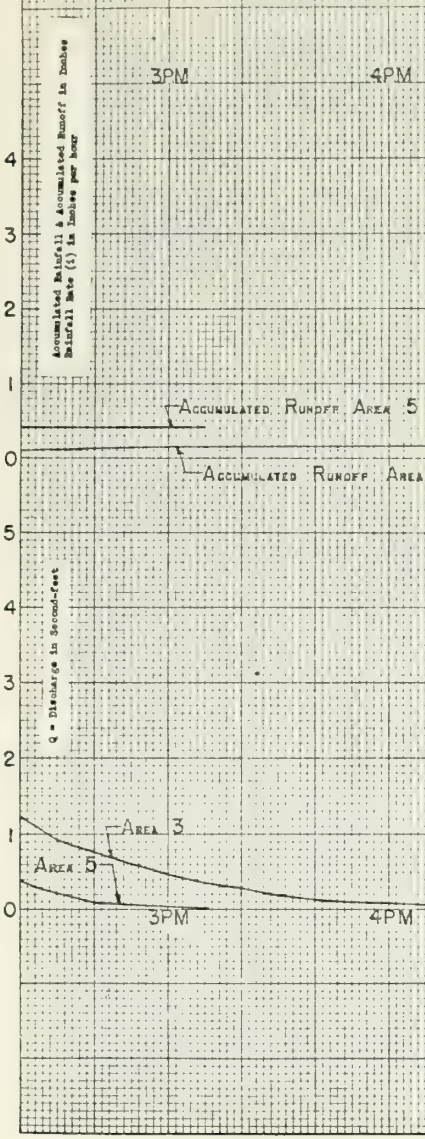
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
Spur, Texas.

STORM NO. July 21, 1932.

Plot by DDI date 9-1-39 checked by LFH date 9-1-39
Computations by DDI date 9-1-39 checked by LFH date 9-1-39


July 21, 1932
8AM
9AM
10AM
11AM
12N
1PM
2PM
Rainfall Rate in in./hr.
Accumulated Rainfall in inches 1.35"
Accumulated Runoff Area 5 .42"
Accumulated Runoff Area 3
Area 5
Area 3
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
Qp Discharge in Second-feet
Spur, Texas
Sheet 3 of 5 Sheets

July 21 1932



	Area No. 3	Area No. 5
Area (acres)	10.711	8.532
Preceding rain (in.)	.18 ins.	.15 ins.
date began	7-6-32	7-6-32
duration (hours)	4 hrs. 40 mins.	4 hrs. 40 mins.
Temperature (max. & min.)	97-70	97-70
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	.9%	1.6%
maximum	1.5%	2%
Cover, type	Cotton	Cotton
height (ft.)	12 to 16 ins.	12 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces	Two foot fall between terraces with a fall of 3" per 100' along the terrace.

AREAS NOS. 3 & 5

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i=\frac{ins.d}{ins.t}$
(min.)	(min.)	(in.)	(in.)	in./hr.
8:55 AM	0	0	0	0
9:00	5	.17	.17	2.04
1:00 PM	240	.17	0	0
1:06	6	.39	.22	2.64
1:10	5	.73	.34	4.08
1:15	5	.84	.11	1.32
1:20	5	.92	.08	.96
1:25	5	1.03	.11	1.32
1:30	5	1.11	.08	.96
1:35	5	1.16	.05	.60
1:40	5	1.20	.04	.48
1:45	5	1.24	.04	.48
1:50	5	1.29	.05	.60
1:55	5	1.30	.01	.12
2:00	5	1.31	.01	.12
2:05	5	1.33	.02	.24
2:10	5	1.34	.01	.12
2:20	10	1.35	.01	.06

SPUR, TEXAS

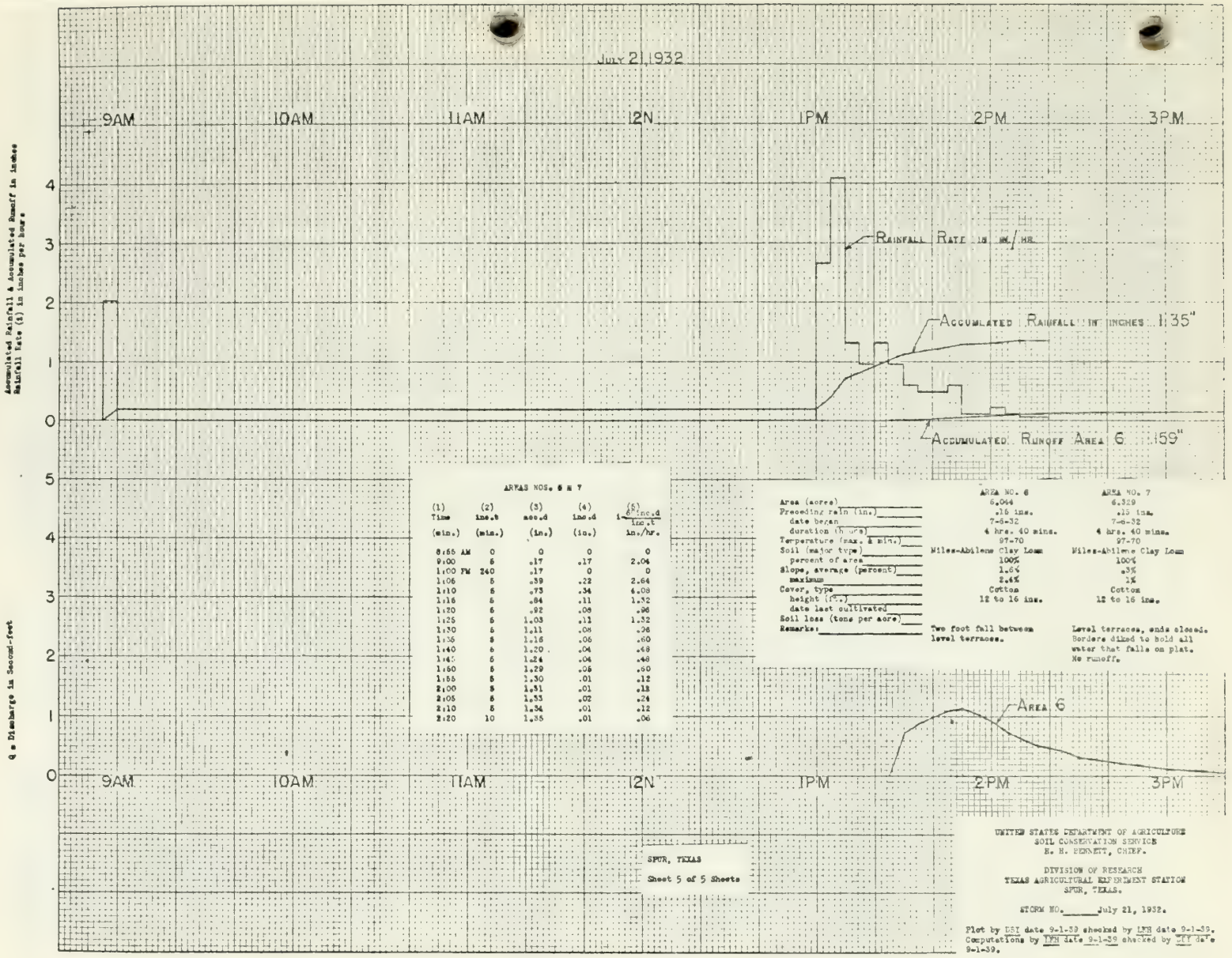
Sheet 4 of 5 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ July 21, 1932

Plot by LEH date 9-1-39 checked by DBI date 9-1-39
Computations by DBI date 9-1-39 checked by [illegible] date 9-1-39



AREAS NOS. 6 & 7

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) i = ins.d / ins.t
(min.)	(min.)	(in.)	(in.)	in./hr.
8:55 AM	0	0	0	0
9:00	5	.17	.17	2.04
1:00 PM	240	.17	0	0
1:06	6	.39	.22	2.64
1:10	5	.73	.34	4.08
1:15	5	.84	.11	1.32
1:20	5	.92	.08	.96
1:25	5	1.03	.11	1.32
1:30	5	1.11	.08	.96
1:35	5	1.16	.05	.60
1:40	5	1.20	.04	.48
1:45	5	1.24	.04	.48
1:50	5	1.29	.05	.60
1:55	5	1.30	.01	.12
2:00	5	1.31	.01	.12
2:05	5	1.33	.02	.24
2:10	5	1.34	.01	.12
2:20	10	1.35	.01	.06

	AREA NO. 6	AREA NO. 7
Area (acres)	6.064	6.329
Preceding rain (in.)	.16 ins.	.15 ins.
date began	7-6-32	7-6-32
duration (hours)	4 hrs. 40 mins.	4 hrs. 40 mins.
Temperature (max. & min.)	97-70	97-70
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	1.6%	.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (in.)	12 to 16 ins.	12 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces.	Level terraces, ends closed. Borders diked to hold all water that falls on plat. No runoff.

SPUR, TEXAS

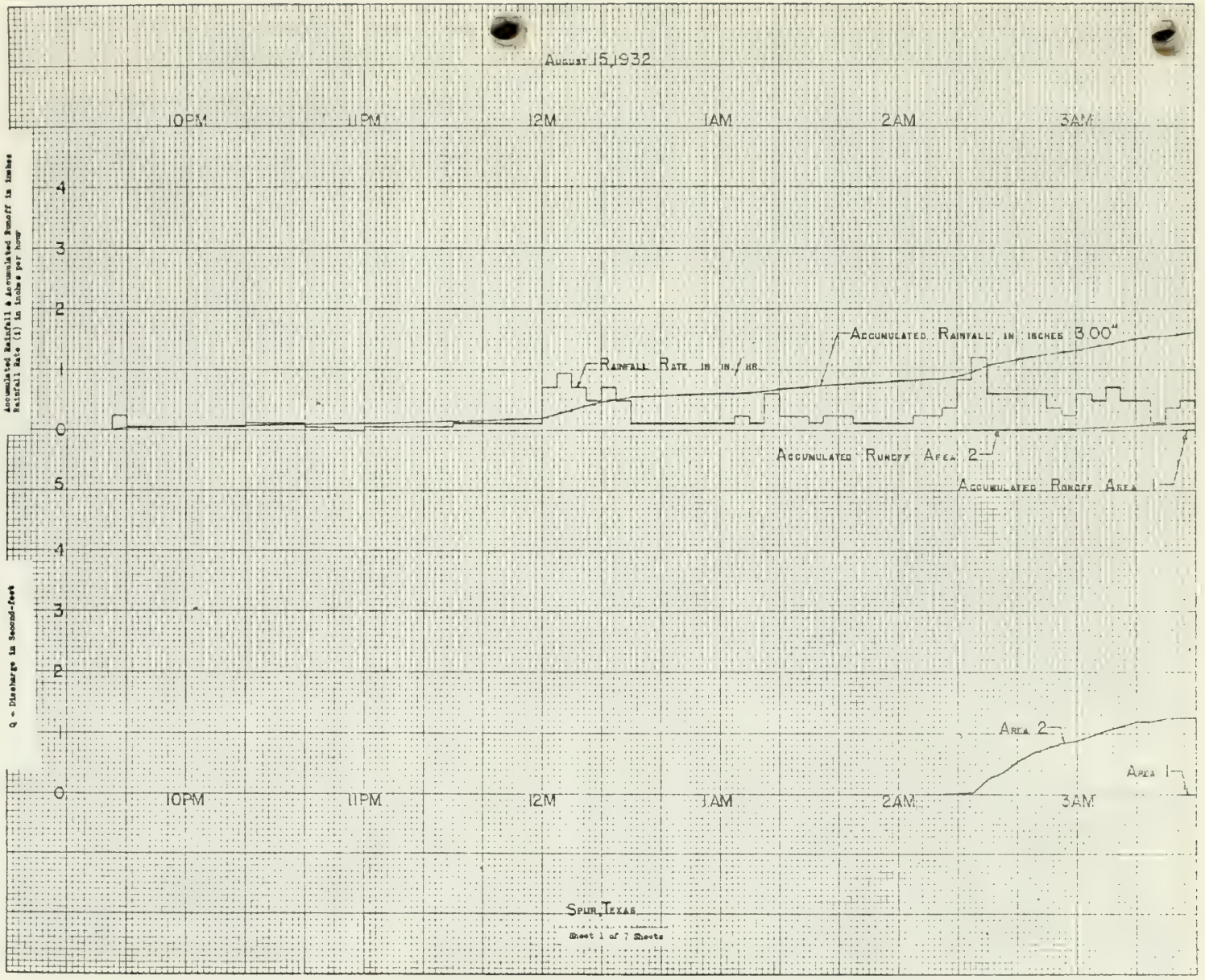
Sheet 5 of 5 Sheets

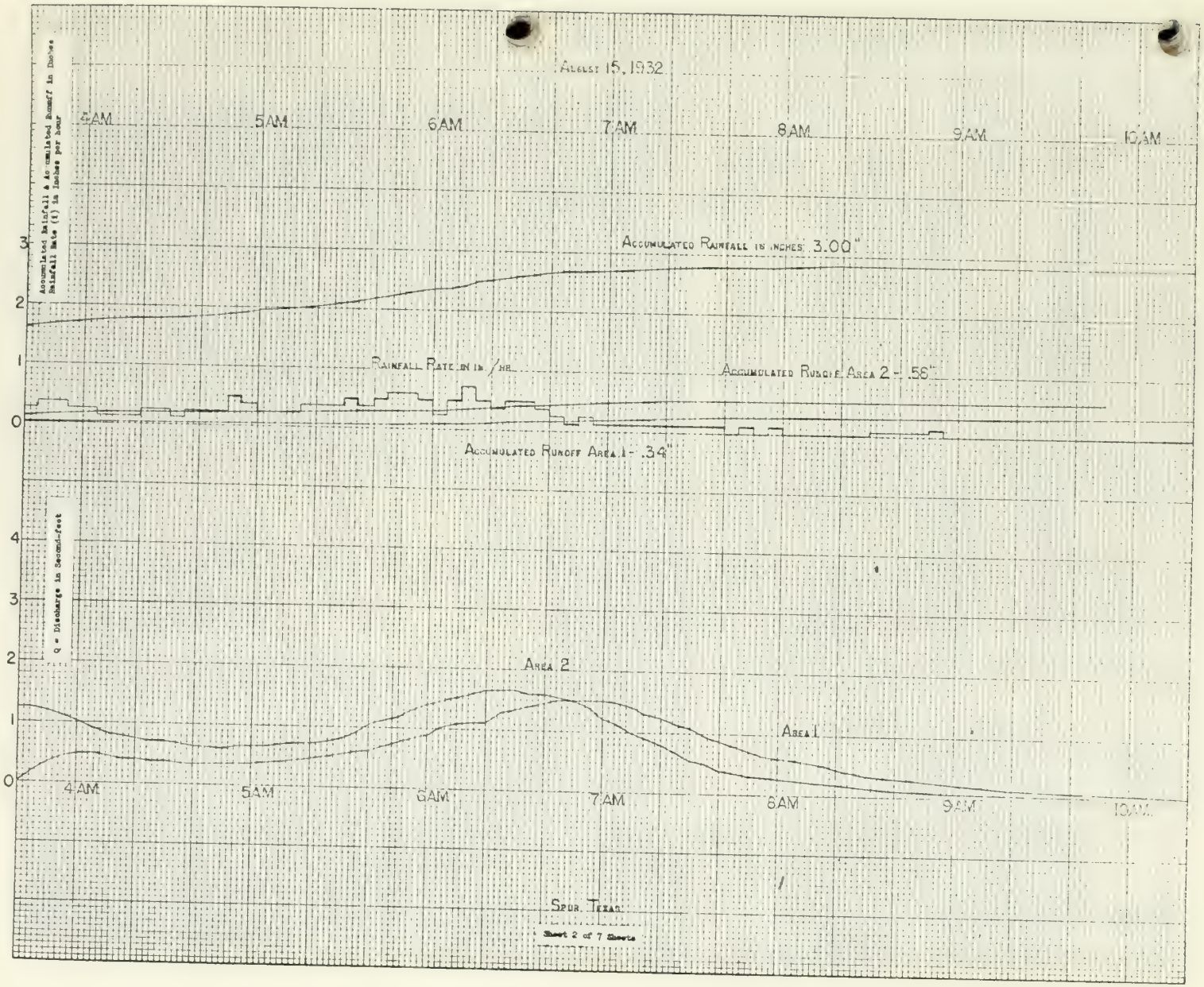
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

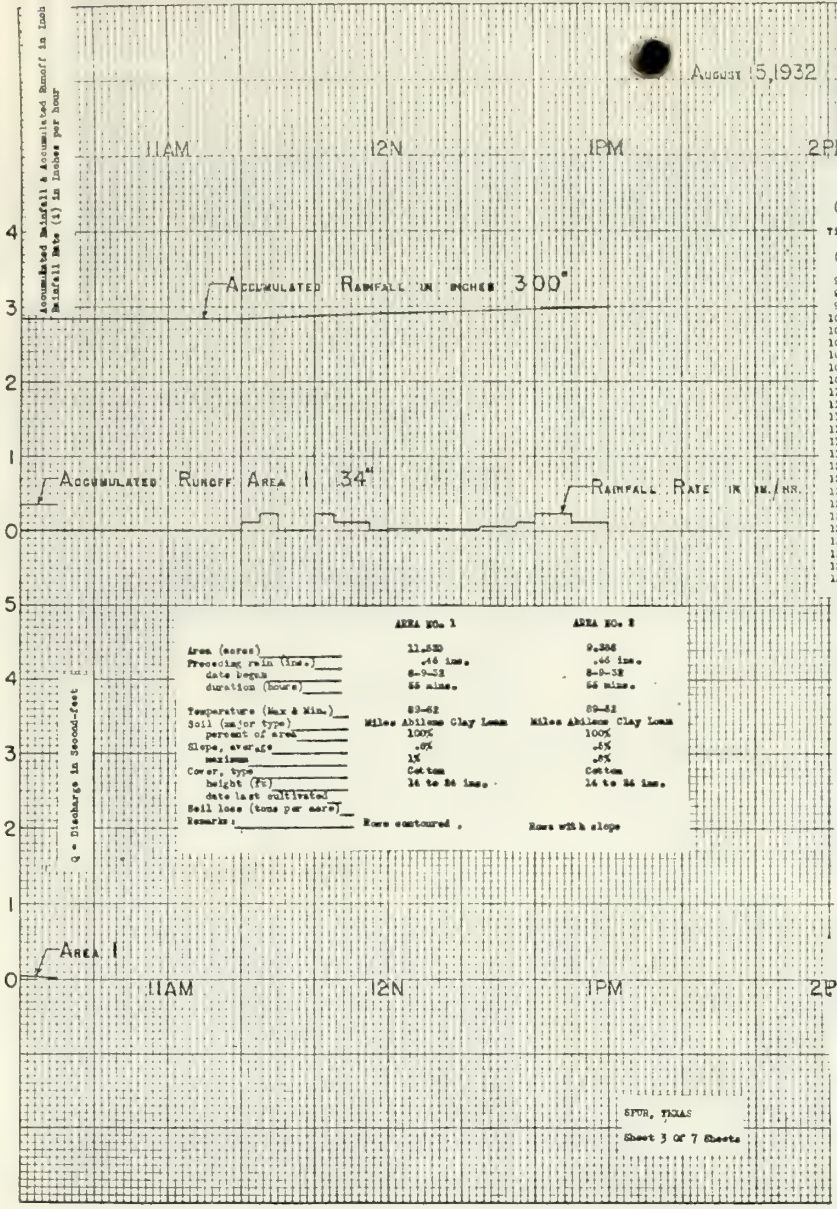
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. July 21, 1932.

Plot by DSI date 9-1-39 checked by LFH date 9-1-39.
Computations by LFH date 9-1-39 checked by DSI date 9-1-39.


August 15, 1932
10PM
11PM
12M
1AM
2AM
3AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
4
3
2
1
0
Rainfall Rate in In./Hr.
Accumulated Rainfall in Inches 3.00"
Accumulated Runoff Area 2
Accumulated Runoff Area 1
5
4
3
2
1
0
Q - Discharge in Second-feet
Area 2
Area 1
10PM
11PM
12M
1AM
2AM
3AM
Spur, Texas
Sheet 1 of 7 Sheets


August 15, 1932
4AM
5AM
6AM
7AM
8AM
9AM
10AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
3
2
1
0
Accumulated Rainfall in Inches 3.00"
Rainfall Rate in In. / Hr.
Accumulated Runoff Area 2 - .58"
Accumulated Runoff Area 1 - .34"
Q = Discharge in Second-feet
4
3
2
1
0
Area 2
Area 1
4AM
5AM
6AM
7AM
8AM
9AM
10AM
Spur, Texas
Sheet 2 of 7 Sheets



AREAS NOS. 1 & 2

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) $\frac{1-.60 \text{ inc.d}}{\text{inc.t}}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
9:35 P	0	0	0	0
9:40 Aug. 14	5	.02	.02	.24
9:50	10	.08	.01	.06
10:00	10	.04	.01	.06
10:10	10	.05	.01	.06
10:20	10	.06	.01	.06
10:30	10	.08	.02	.12
10:40	10	.10	.02	.12
10:50	10	.11	.01	.06
11:00	10	.11	0	0
11:10	10	.12	.01	.06
11:20	10	.13	.01	.06
11:30	10	.14	.01	.06
11:40	10	.16	.02	.12
11:50	10	.18	.02	.12
12:00 M	10	.20	.02	.12
12:05 A Aug. 15	5	.28	.06	.72
12:10	5	.34	.06	.96
12:15	5	.40	.06	.72
12:20	5	.44	.04	.48
12:25	5	.50	.06	.72
12:30	5	.54	.04	.48
12:35	5	.55	.01	.12
12:40	5	.56	.01	.12
12:45	5	.57	.01	.12
12:50	5	.58	.01	.12
12:55	5	.59	.01	.12
1:00	5	.60	.01	.12
1:05	5	.61	.01	.12
1:10	5	.63	.02	.24
1:15	5	.64	.01	.12
1:20	5	.69	.05	.60
1:25	5	.71	.02	.24
1:30	5	.78	.02	.24
1:35	5	.74	.01	.12
1:40	5	.76	.02	.24
1:45	5	.78	.02	.24
1:50	5	.79	.01	.12
1:55	5	.80	.01	.12
2:00	5	.81	.01	.12
2:05	5	.82	.01	.12
2:10	5	.84	.02	.24
2:15	5	.88	.02	.24
2:20	5	.89	.03	.36
2:25	5	.96	.07	.84
2:30	5	1.06	.10	1.20
2:35	5	1.11	.05	.60
2:40	5	1.16	.05	.60
2:45	5	1.21	.05	.60
2:50	5	1.26	.05	.60
2:55	5	1.29	.03	.36
3:00	5	1.31	.02	.24
3:05	5	1.36	.05	.60
3:10	5	1.40	.04	.48
3:15	5	1.46	.06	.72
3:20	5	1.50	.04	.48
3:25	5	1.54	.04	.48
3:30	5	1.55	.01	.12
3:35	5	1.58	.03	.36
3:40	5	1.62	.04	.48
3:45	5	1.64	.02	.24
3:50	5	1.67	.03	.36
3:55	5	1.70	.03	.36
4:00	5	1.72	.02	.24
4:05	5	1.74	.02	.24
4:10	5	1.75	.01	.12
4:15	5	1.76	.01	.12
4:20	5	1.77	.01	.12
4:25	5	1.79	.02	.24
4:30	5	1.81	.02	.24
4:35	5	1.82	.01	.12
4:40	5	1.84	.02	.24
4:45	5	1.86	.02	.24
4:50	5	1.88	.02	.24
4:55	5	1.92	.04	.48
5:00	5	1.95	.03	.36
5:05	5	1.97	.02	.24

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) $\frac{1-.60 \text{ inc.d}}{\text{inc.t}}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
5:10 A Aug. 15	5	1.99	.02	.24
5:15	5	2.01	.02	.24
5:20	5	2.04	.03	.36
5:25	5	2.07	.03	.36
5:30	5	2.10	.03	.36
5:35	5	2.14	.04	.48
5:40	5	2.17	.03	.36
5:45	5	2.21	.04	.48
5:50	5	2.26	.05	.60
5:55	5	2.31	.05	.60
6:00	5	2.35	.04	.48
6:05	5	2.37	.02	.24
6:10	5	2.41	.04	.48
6:15	5	2.47	.05	.72
6:20	5	2.51	.04	.48
6:25	5	2.54	.03	.36
6:30	5	2.58	.04	.48
6:35	5	2.62	.04	.48
6:40	5	2.65	.03	.36
6:45	5	2.67	.02	.24
6:50	5	2.68	.01	.12
6:55	5	2.70	.02	.24
7:00	5	2.71	.01	.12
7:05	5	2.72	.01	.12
7:10	5	2.73	.01	.12
7:15	5	2.74	.01	.12
7:20	5	2.76	.01	.12
7:25	5	2.78	.01	.12
7:30	5	2.77	.01	.12
7:35	5	2.78	.01	.12
7:40	5	2.79	.01	.12
7:45	5	2.79	0	0
7:50	5	2.80	.01	.12
7:55	5	2.80	0	0
8:00	5	2.81	.01	.12
8:30	30	2.81	.01	.02
8:40	10	2.82	.01	.06
8:50	10	2.83	.01	.06
8:55	5	2.84	.01	.12
11:20	145	2.84	0	0
11:25	5	2.85	.01	.12
11:30	5	2.87	.02	.24
11:40	10	2.87	0	0
11:45	5	2.89	.02	.24
11:50	5	2.90	.01	.12
11:55	5	2.91	.01	.01
12:00 N	5	2.91	0	0
12:25	25	2.92	.01	.024
12:35	10	2.93	.01	.06
12:40	5	2.94	.01	.12
12:45	5	2.96	.02	.24
12:50	5	2.98	.02	.24
12:55	5	2.99	.01	.12
1:00	5	3.00	.01	.12

	AREA NO. 1	AREA NO. 2
Area (acres)	11.520	9.386
Preceding rain (ins.)	.46 ins.	.46 ins.
date began	8-9-32	8-9-32
duration (hours)	55 mins.	55 mins.
Temperature (Max & Min.)	83-62	83-62
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft.)	14 to 24 ins.	14 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows contoured.	Rows with slope

SPUR, TEXAS

Sheet 3 Of 7 Sheets

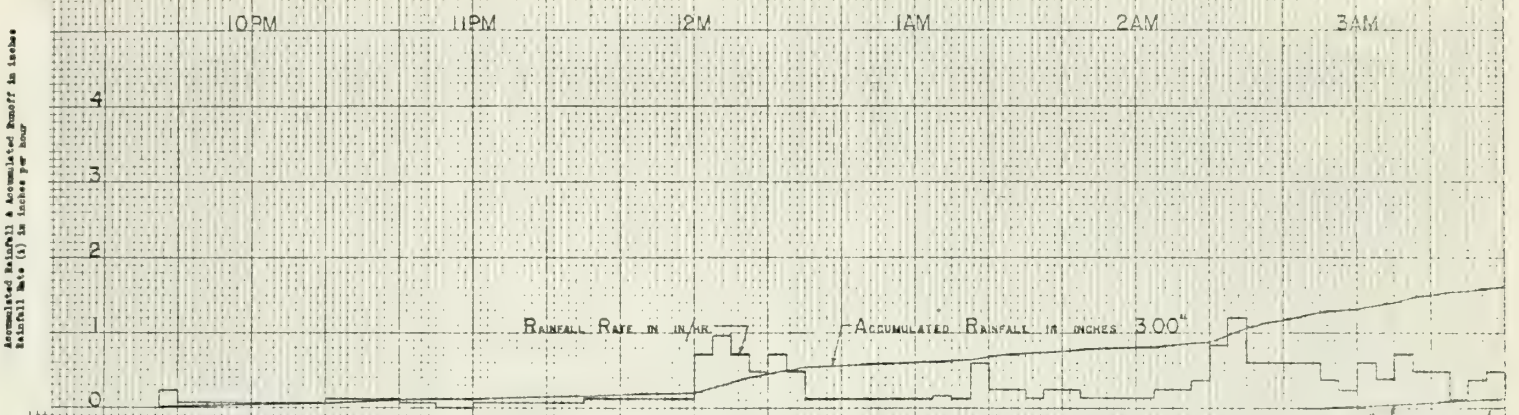
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ August 15, 1932.

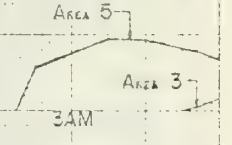
Plot by DBI date 9-6-39 checked by LEH date 9-9-39
Computations by LEH date 9-6-39 checked by DBI date 9-6-39

August 15, 1932



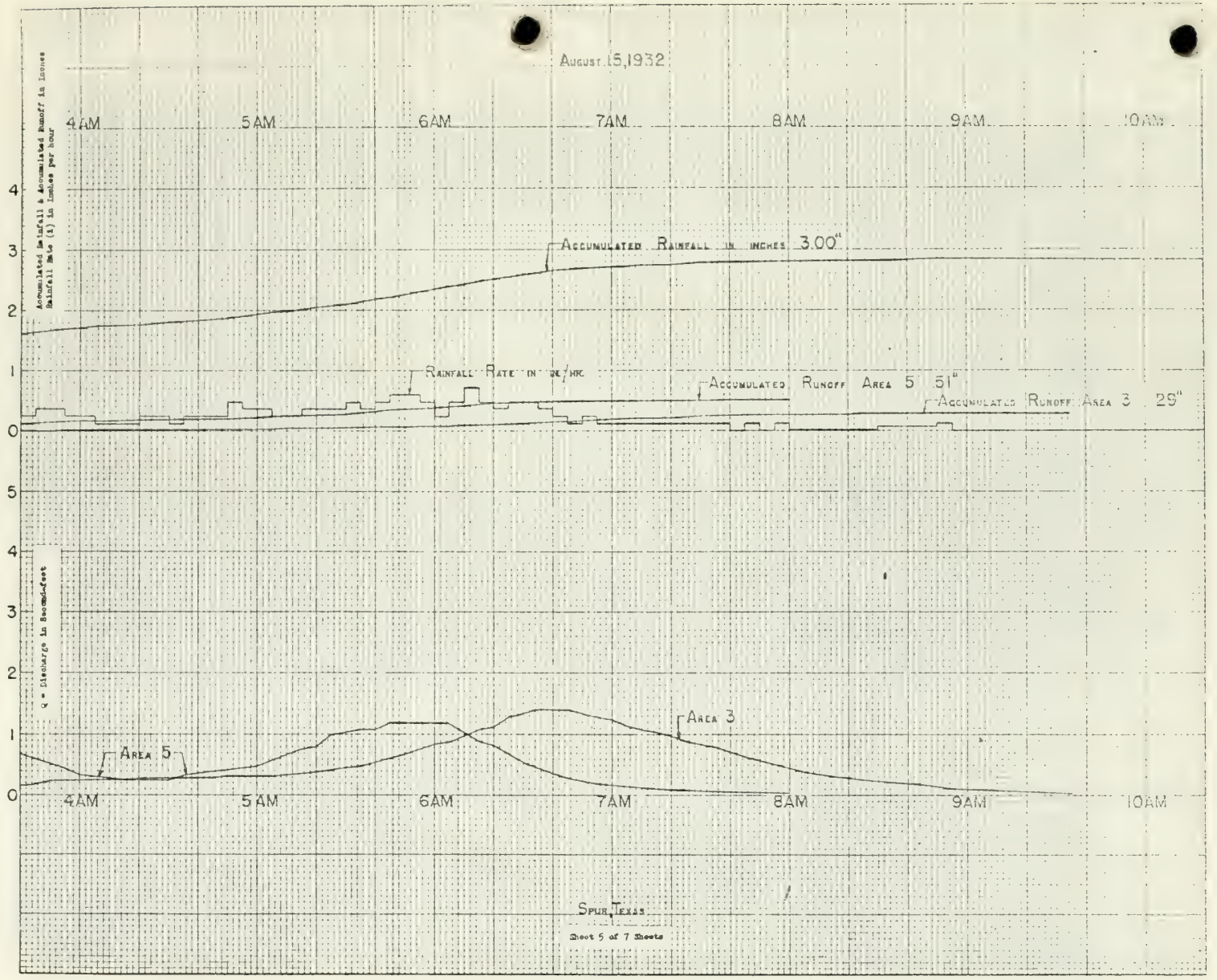
	Area No. 3	Area No. 5
Area (acres)	10.711	5.532
Preceding Rain (in.)	.46 ins.	.46 ins.
date began	8-9-32	8-9-32
duration (hours)	55 mins.	55 mins.
Temperature (max. & min.)	89-62	89-62
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	.9%	1.6%
maximum	1.3%	2.0
Cover, type	Cotton	Cotton
height (ft.)	18 to 28 ins.	18 to 28 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks	One foot fall between level terraces	Two foot fall between terraces; fall of 3 ins. per 100 feet.

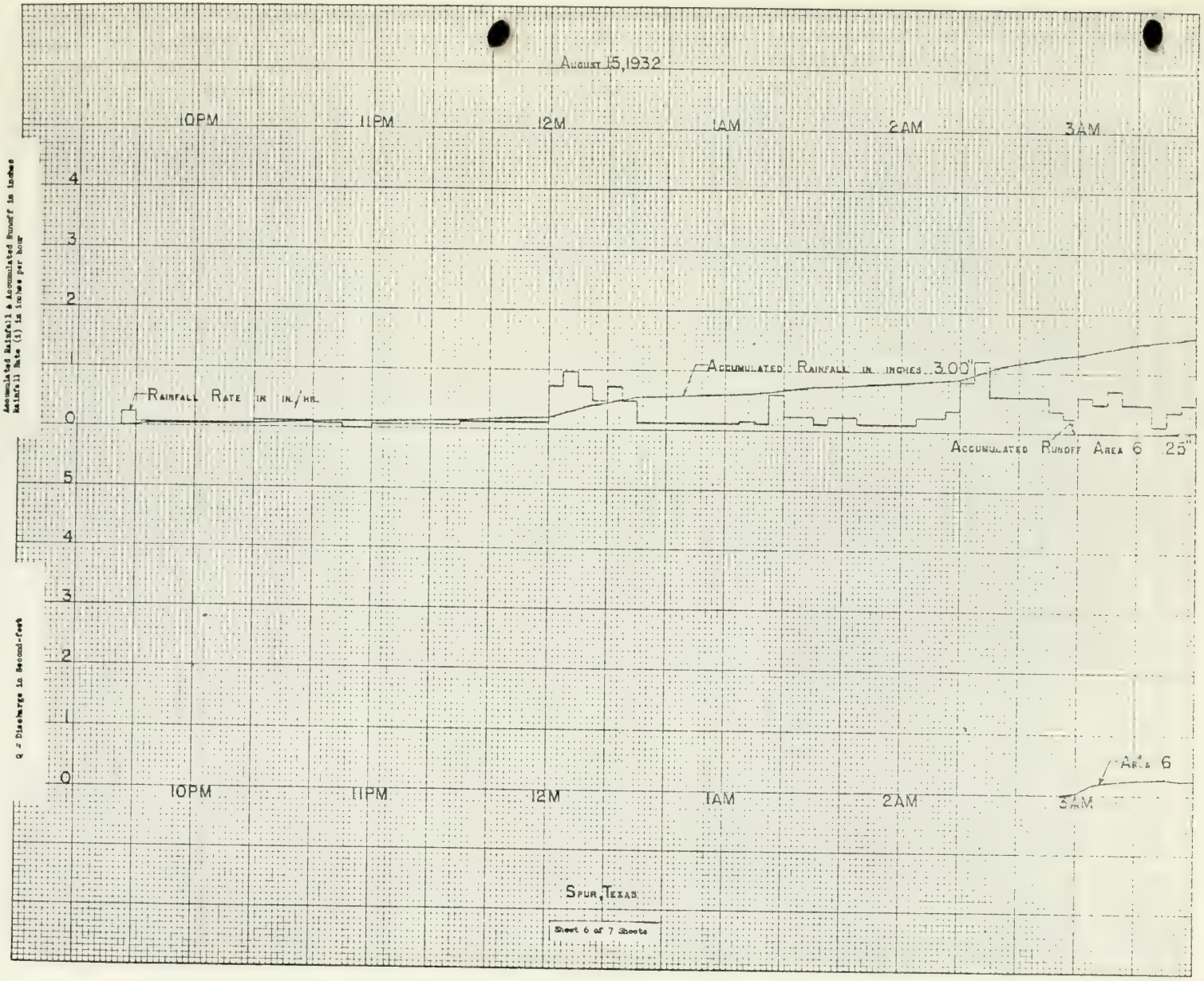
	Area No. 6	Area No. 7
Area (acres)	6.044	6.329
Preceding Rain (in.)	.46 ins	.46 ins.
date began	8-9-32	8-9-32
duration (hours)	55 mins.	55 mins.
Temperature (max. & min.)	86-66	86-66
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loa m
percent of area	100%	100%
Slope, average (percent)	1.6%	.3%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (ft.)	18 to 28 ins.	18 to 28 ins .
date last cultivated		
Soil loss (tons per acre)		
Remarks	Two foot fall level terrace.	Level terraces. Ends closed. Borders diked. No runoff.

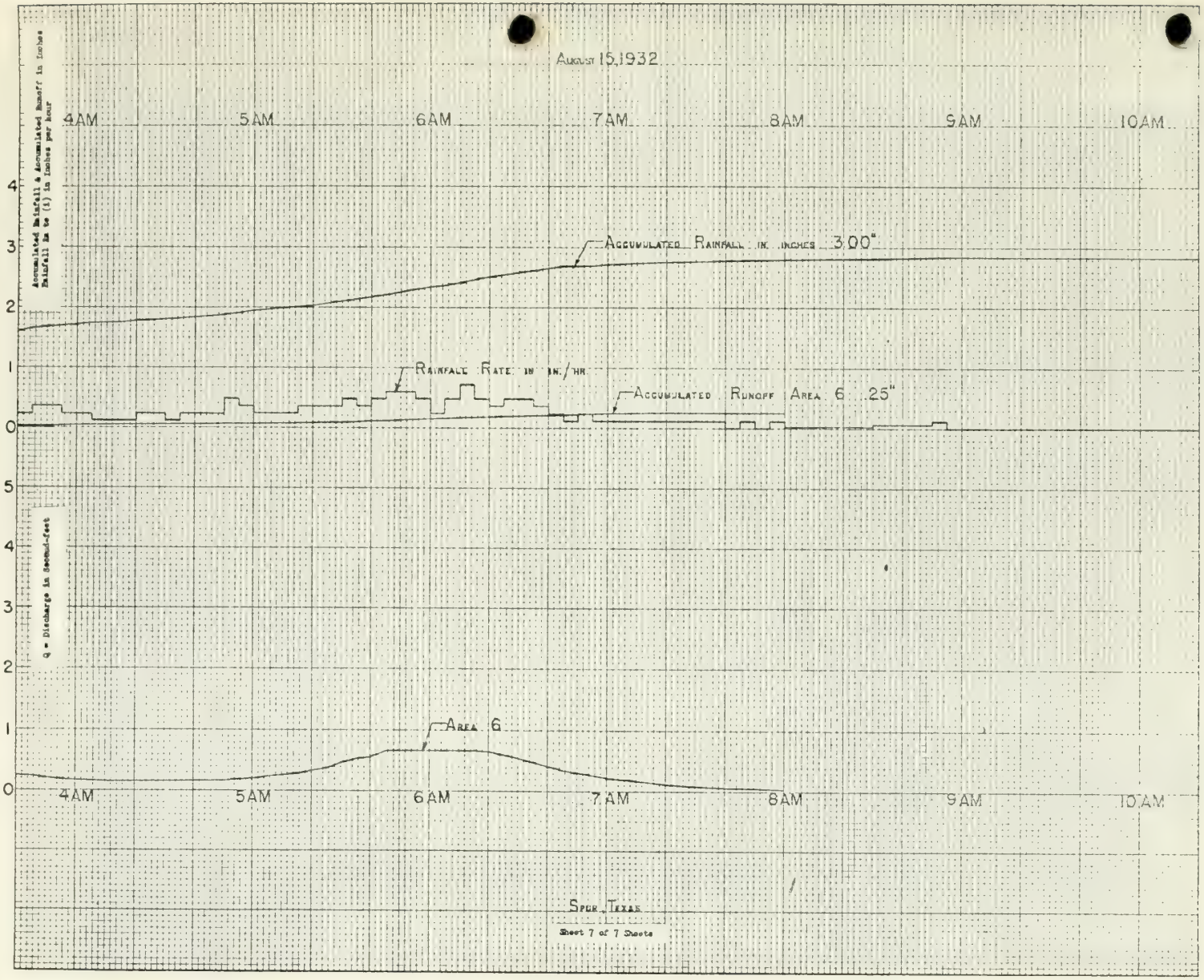


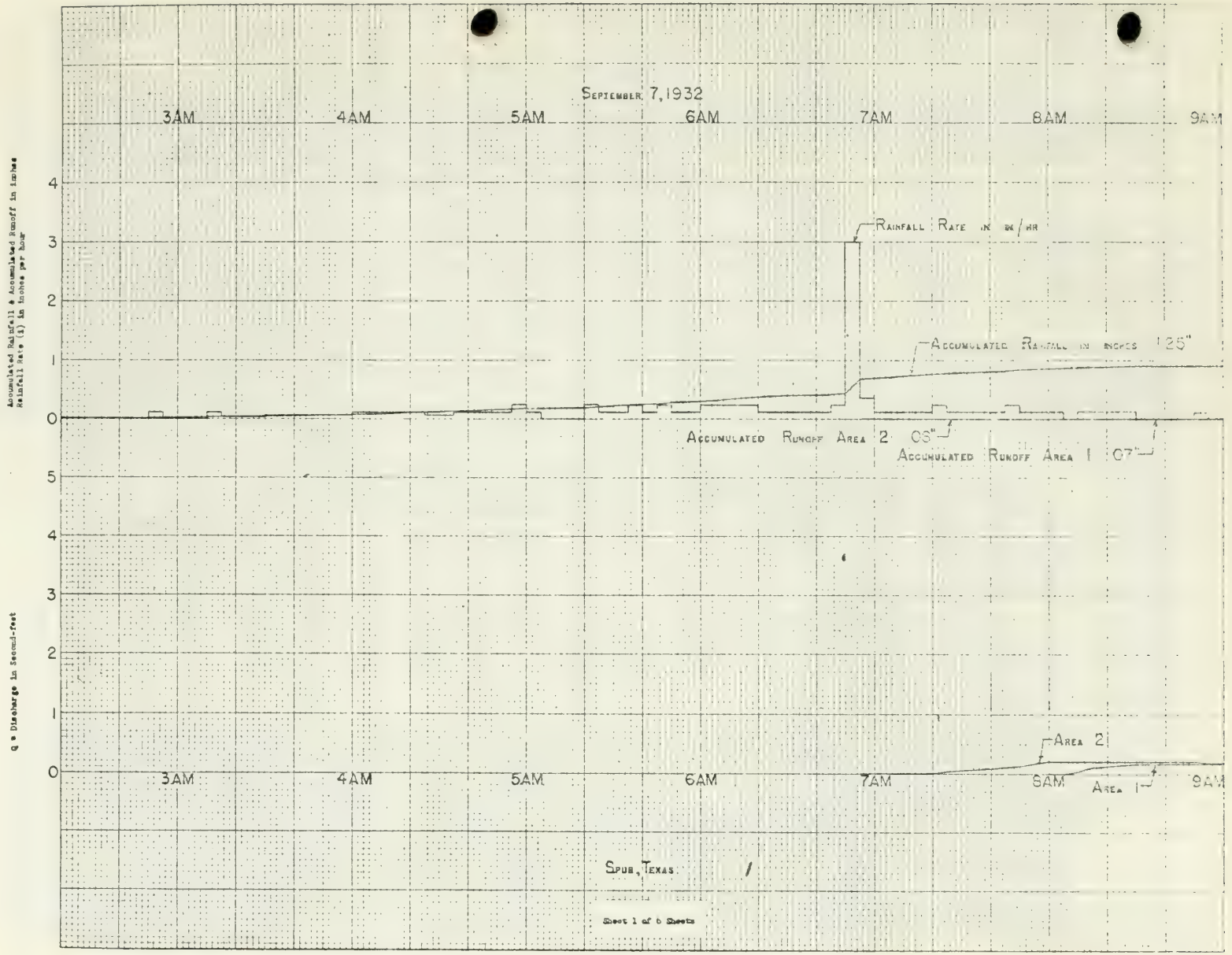
Spur, Texas

Sheet 4 of 7 Sheets

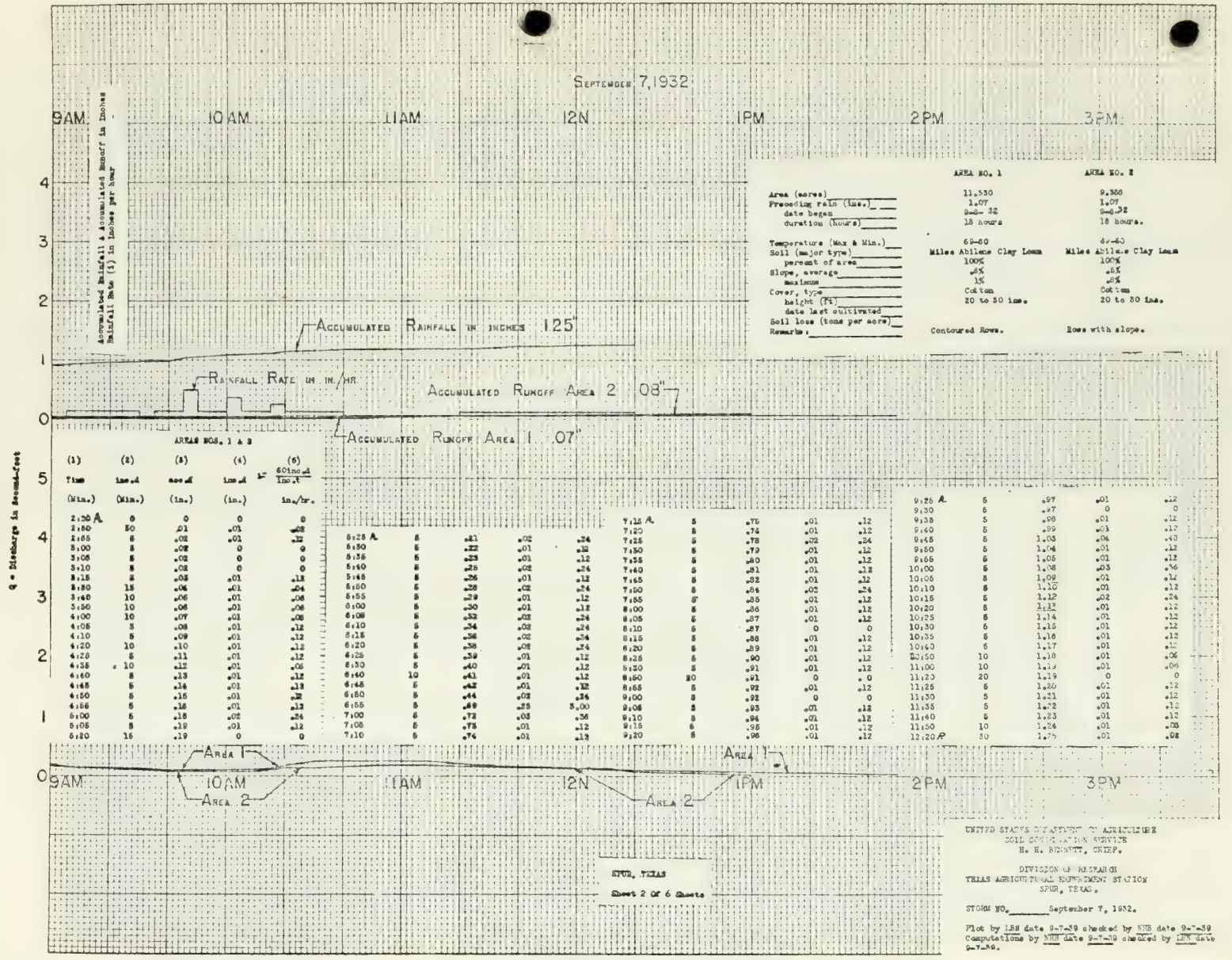

August 15, 1932
4AM
5AM
6AM
7AM
8AM
9AM
10AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
Accumulated Rainfall in Inches 3.00"
Rainfall Rate in "I" /HR.
Accumulated Runoff Area 5 .51"
Accumulated Runoff Area 3 .29"
Q = Discharge in Second-feet
Area 5
Area 3
Spur, Texas
Sheet 5 of 7 Sheets


August 15, 1932
10PM
11PM
12M
1AM
2AM
3AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in inches per hour
4
3
2
1
0
Rainfall Rate in in./hr.
Accumulated Rainfall in inches 3.00"
Accumulated Runoff Area 6 .25"
Q = Discharge in Second-feet
5
4
3
2
1
0
Area 6
10PM
11PM
12M
1AM
2AM
3AM
Spur, Texas
Sheet 6 of 7 Sheets


August 15,1932
4AM
5AM
6AM
7AM
8AM
9AM
10AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall is to (1) in Inches per hour
Accumulated Rainfall in Inches 3.00"
Rainfall Rate in In./Hr.
Accumulated Runoff Area 6 .25"
Q = Discharge in Second-feet
Area 6
Spur, Texas
Sheet 7 of 7 Sheets



Sheet 1 of 6 Sheets



	AREA NO. 1	AREA NO. 2
Area (acres)	11.530	9.366
Preceding rain (ins.)	1.07	1.07
date began	9-6-32	9-6-32
duration (hours)	18 hours	18 hours.
Temperature (Max & Min.)	69-60	69-60
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	2%	2%
maximum	3%	3%
Cover, type	Cotton	Cotton
height (ft)	20 to 30 ins.	20 to 30 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows with slope.

AREAS NOS. 1 & 2

(1) Time (Min.)	(2) Inc.d (Min.)	(3) acc.d (in.)	(4) Inc.d (in.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
2:30 A.	0	0	0	0
2:80	50	.01	.01	.12
2:85	5	.02	.01	.12
3:00	5	.02	0	0
3:05	5	.02	0	0
3:10	5	.02	0	0
3:15	5	.03	.01	.12
3:30	15	.04	.01	.04
3:40	10	.05	.01	.06
3:50	10	.06	.01	.06
4:00	10	.07	.01	.06
4:05	5	.08	.01	.12
4:10	5	.09	.01	.12
4:20	10	.10	.01	.12
4:28	5	.11	.01	.12
4:35	10	.12	.01	.06
4:40	5	.13	.01	.12
4:45	5	.14	.01	.12
4:50	5	.15	.01	.12
4:55	5	.16	.01	.12
5:00	5	.18	.02	.24
5:05	5	.19	.01	.12
5:20	15	.19	0	0
5:28 A.	8	.21	.02	.24
5:30	5	.22	.01	.12
5:35	5	.23	.01	.12
5:40	5	.25	.02	.24
5:45	5	.26	.01	.12
5:50	5	.28	.02	.24
5:55	5	.29	.01	.12
6:00	5	.30	.01	.12
6:05	5	.32	.02	.24
6:10	5	.34	.02	.24
6:15	5	.36	.02	.24
6:20	5	.38	.02	.24
6:25	5	.39	.01	.12
6:30	5	.40	.01	.12
6:40	10	.41	.01	.12
6:45	5	.42	.01	.12
6:50	5	.44	.02	.24
6:55	5	.49	.05	5.00
7:00	5	.72	.03	.36
7:05	5	.73	.01	.12
7:10	5	.74	.01	.12
7:15 A.	5	.75	.01	.12
7:20	5	.76	.01	.12
7:25	5	.78	.02	.24
7:30	5	.79	.01	.12
7:35	5	.80	.01	.12
7:40	5	.81	.01	.12
7:45	5	.82	.01	.12
7:50	5	.84	.02	.24
7:55	5	.85	.01	.12
8:00	5	.86	.01	.12
8:05	5	.87	.01	.12
8:10	5	.87	0	0
8:15	5	.88	.01	.12
8:20	5	.89	.01	.12
8:25	5	.90	.01	.12
8:30	5	.91	.01	.12
8:50	20	.91	0	0
8:55	5	.92	.01	.12
9:00	5	.92	0	0
9:05	5	.93	.01	.12
9:10	5	.94	.01	.12
9:15	5	.95	.01	.12
9:20	5	.96	.01	.12
9:26 A.	5	.97	.01	.12
9:30	5	.97	0	0
9:35	5	.98	.01	.12
9:40	5	.99	.01	.12
9:45	5	1.03	.04	.40
9:50	5	1.04	.01	.12
9:55	5	1.05	.01	.12
10:00	5	1.08	.03	.36
10:05	5	1.09	.01	.12
10:10	5	1.10	.01	.12
10:15	5	1.12	.02	.24
10:20	5	1.13	.01	.12
10:25	5	1.14	.01	.12
10:30	5	1.15	.01	.12
10:35	5	1.16	.01	.12
10:40	5	1.17	.01	.12
10:50	10	1.18	.01	.06
11:00	10	1.19	.01	.06
11:20	20	1.19	0	0
11:25	5	1.20	.01	.12
11:30	5	1.21	.01	.12
11:35	5	1.22	.01	.12
11:40	5	1.23	.01	.12
11:50	10	1.24	.01	.06
12:20 P.	30	1.25	.01	.02

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

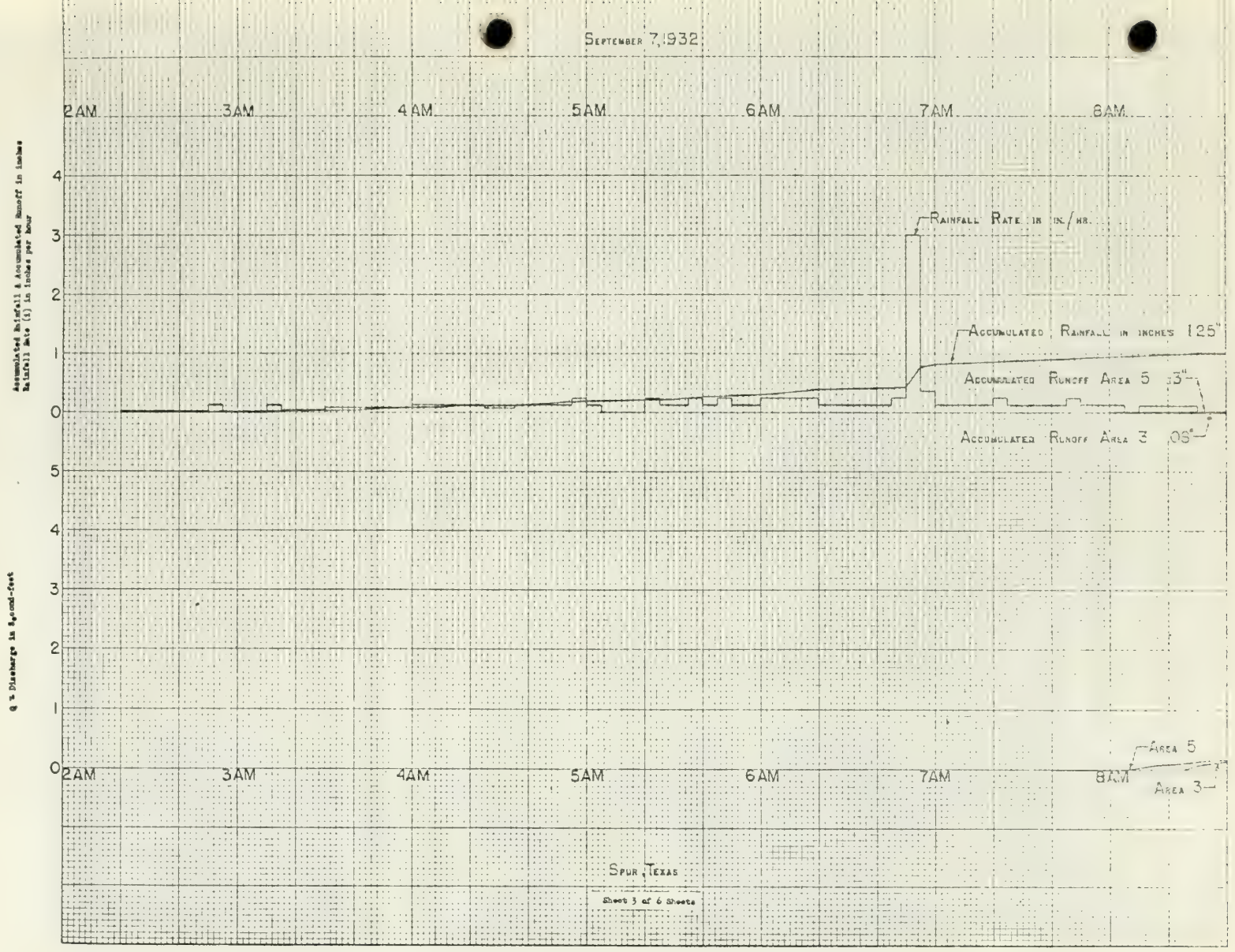
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

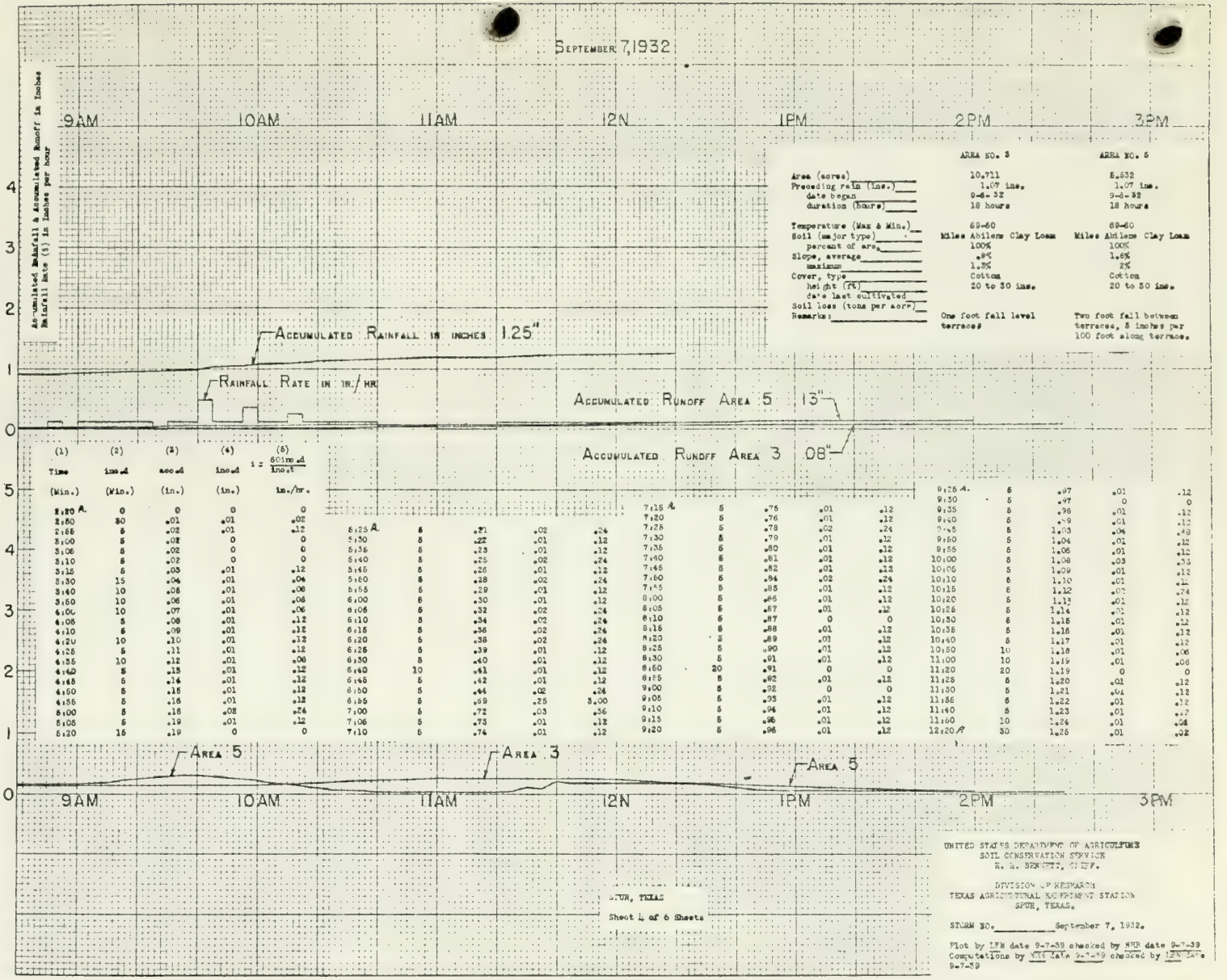
SPUR, TEXAS

Sheet 2 Of 6 Sheets

STORM NO. _____ September 7, 1932.

Plot by LSH date 9-7-39 checked by NHB date 9-7-39
Computations by NHB date 9-7-39 checked by LSH date 9-7-39.


September 7, 1932
2AM
3AM
4AM
5AM
6AM
7AM
8AM
Rainfall Rate in in./hr.
Accumulated Rainfall in inches 1.25"
Accumulated Runoff Area 5 .93"
Accumulated Runoff Area 3 .08"
Area 5
Area 3
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
Q = Discharge in Second-feet
Spur, Texas
Sheet 3 of 6 Sheets



	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.632
Preceding rain (ins.)	1.07 ins.	1.07 ins.
date began	9-6-32	9-6-32
duration (hours)	18 hours	18 hours
Temperature (Max & Min.)	69-60	69-60
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.8%	1.6%
maximum	1.5%	2%
Cover, type	Cotton	Cotton
height (ft)	20 to 30 ins.	20 to 30 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall level terraces.	Two foot fall between terraces, 3 inches per 100 foot along terrace.

(1) Time	(2) ins.d	(3) sec.d	(4) ins.d	(5) i = 60 ins.d / ins.t
(Min.)	(Min.)	(in.)	(in.)	in./hr.
2:20 A.	0	0	0	0
2:30	30	.01	.01	.02
2:35	5	.02	.01	.12
3:00	5	.02	0	0
3:05	5	.02	0	0
3:10	5	.02	0	0
3:15	5	.03	.01	.12
3:30	15	.04	.01	.04
3:40	10	.05	.01	.06
3:50	10	.06	.01	.06
4:00	10	.07	.01	.06
4:05	5	.08	.01	.12
4:10	5	.09	.01	.12
4:20	10	.10	.01	.12
4:25	5	.11	.01	.12
4:35	10	.12	.01	.08
4:40	5	.13	.01	.12
4:45	5	.14	.01	.12
4:50	5	.15	.01	.12
4:55	5	.16	.01	.12
5:00	5	.18	.02	.24
5:05	5	.19	.01	.12
5:20	15	.19	0	0
5:25 A.	5	.21	.02	.24
5:30	5	.22	.01	.12
5:35	5	.23	.01	.12
5:40	5	.25	.02	.24
5:45	5	.26	.01	.12
5:50	5	.28	.02	.24
5:55	5	.29	.01	.12
6:00	5	.30	.01	.12
6:05	5	.32	.02	.24
6:10	5	.34	.02	.24
6:15	5	.36	.02	.24
6:20	5	.38	.02	.24
6:25	5	.39	.01	.12
6:30	5	.40	.01	.12
6:40	10	.41	.01	.12
6:45	5	.42	.01	.12
6:50	5	.44	.02	.24
6:55	5	.69	.25	3.00
7:00	5	.72	.03	.36
7:06	5	.73	.01	.12
7:10	5	.74	.01	.12
7:15 A.	5	.75	.01	.12
7:20	5	.76	.01	.12
7:25	5	.78	.02	.24
7:30	5	.79	.01	.12
7:36	5	.80	.01	.12
7:40	5	.81	.01	.12
7:45	5	.82	.01	.12
7:50	5	.84	.02	.24
7:55	5	.85	.01	.12
8:00	5	.86	.01	.12
8:05	5	.87	.01	.12
8:10	5	.87	0	0
8:16	5	.88	.01	.12
8:20	5	.89	.01	.12
8:25	5	.90	.01	.12
8:30	5	.91	.01	.12
8:50	20	.91	0	0
8:55	5	.92	.01	.12
9:00	5	.92	0	0
9:05	5	.93	.01	.12
9:10	5	.94	.01	.12
9:15	5	.95	.01	.12
9:20	5	.96	.01	.12
9:25 A.	5	.97	.01	.12
9:30	5	.97	0	0
9:35	5	.98	.01	.12
9:40	5	.99	.01	.12
9:45	5	1.03	.04	.48
9:50	5	1.04	.01	.12
9:55	5	1.05	.01	.12
10:00	5	1.08	.03	.36
10:05	5	1.09	.01	.12
10:10	5	1.10	.01	.12
10:15	5	1.12	.02	.24
10:20	5	1.13	.01	.12
10:26	5	1.14	.01	.12
10:30	5	1.15	.01	.12
10:36	5	1.16	.01	.12
10:40	5	1.17	.01	.12
10:50	10	1.18	.01	.06
11:00	10	1.19	.01	.06
11:20	20	1.19	0	0
11:25	5	1.20	.01	.12
11:30	5	1.21	.01	.12
11:35	5	1.22	.01	.12
11:40	5	1.23	.01	.12
11:60	10	1.24	.01	.06
12:20 P.	30	1.25	.01	.02

SPUR, TEXAS

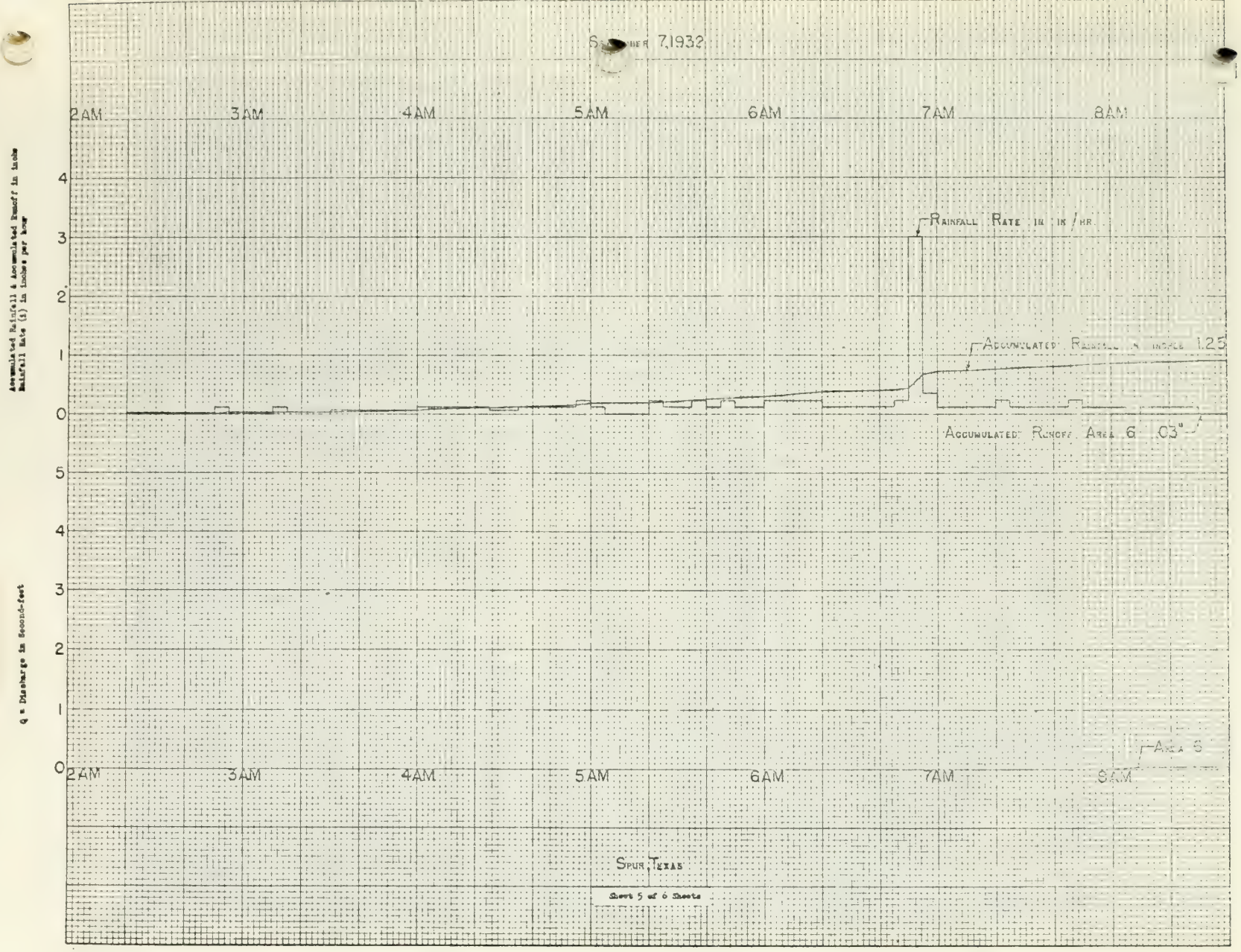
Sheet 1 of 6 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

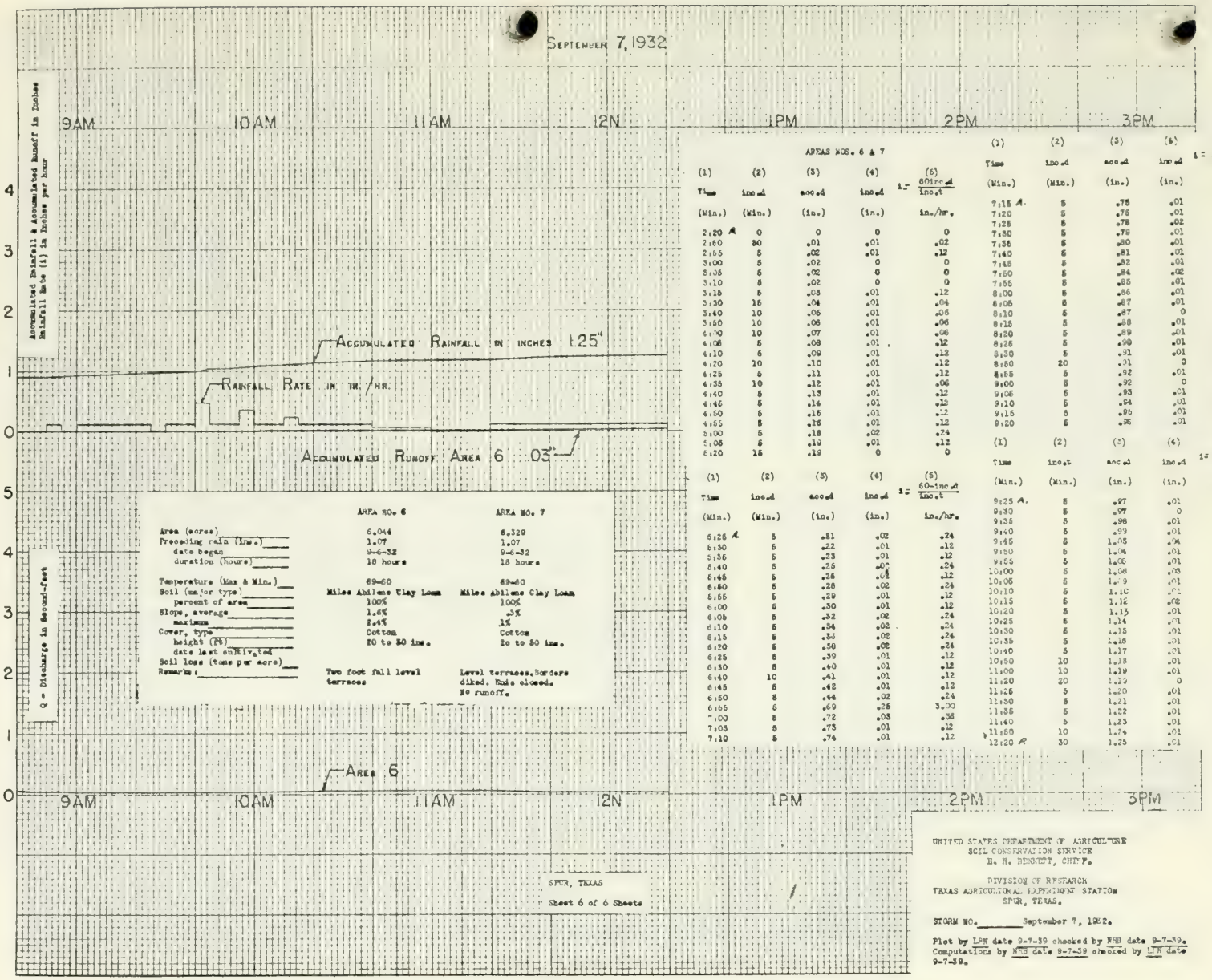
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. September 7, 1932.

Plot by LFH date 9-7-39 checked by MRB date 9-7-39
Computations by VCS date 9-7-39 checked by LFH date 9-7-39


Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
Q = Discharge in Second-feet
2AM
3AM
4AM
5AM
6AM
7AM
8AM
4
3
2
1
0
5
4
3
2
1
0
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES 1.25
ACCUMULATED RUNOFF AREA .6 .03"
AREA S
SPUR, TEXAS
Sheet 5 of 6 Sheets

SEPTEMBER 7, 1932



	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	6.329
Preceding rain (Ins.)	1.07	1.07
date began	9-6-32	9-6-32
duration (hours)	18 hours	18 hours
Temperature (Max & Min.)	69-60	69-60
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft)	20 to 30 ins.	20 to 30 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall level terraces	Level terraces, Borders diked. Ends closed. No runoff.

AREAS NOS. 6 & 7

(1) Time (Min.)	(2) inc.d (Min.)	(3) acc.d (ins.)	(4) inc.d (in.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
2:20 A.	0	0	0	0
2:40	20	.01	.01	.02
2:55	5	.02	.01	.12
3:00	5	.02	0	0
3:05	5	.02	0	0
3:10	5	.02	0	0
3:15	5	.03	.01	.12
3:30	15	.04	.01	.04
3:40	10	.05	.01	.06
3:50	10	.06	.01	.06
4:00	10	.07	.01	.06
4:05	5	.08	.01	.12
4:10	5	.09	.01	.12
4:20	10	.10	.01	.12
4:25	5	.11	.01	.12
4:35	10	.12	.01	.06
4:40	5	.13	.01	.12
4:45	5	.14	.01	.12
4:50	5	.15	.01	.12
4:55	5	.16	.01	.12
5:00	5	.18	.02	.24
5:05	5	.19	.01	.12
5:20	15	.19	0	0

(1) Time (Min.)	(2) inc.d (Min.)	(3) acc.d (ins.)	(4) inc.d (in.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
5:26 A.	5	.21	.02	.24
5:30	5	.22	.01	.12
5:35	5	.23	.01	.12
5:40	5	.25	.02	.24
5:45	5	.26	.01	.12
5:50	5	.28	.02	.24
5:55	5	.29	.01	.12
6:00	5	.30	.01	.12
6:06	6	.32	.02	.24
6:10	5	.34	.02	.24
6:15	5	.35	.02	.24
6:20	5	.36	.02	.24
6:25	5	.39	.01	.12
6:30	5	.40	.01	.12
6:40	10	.41	.01	.12
6:45	5	.42	.01	.12
6:50	5	.44	.02	.24
6:55	5	.69	.25	3.00
7:00	5	.72	.03	.36
7:05	5	.73	.01	.12
7:10	5	.74	.01	.12

(1) Time (Min.)	(2) inc.d (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
7:15 A.	5	.75	.01	.12
7:20	5	.76	.01	.12
7:25	5	.78	.02	.24
7:30	5	.79	.01	.12
7:35	5	.80	.01	.12
7:40	5	.81	.01	.12
7:45	5	.82	.01	.12
7:50	5	.84	.02	.24
7:55	5	.85	.01	.12
8:00	5	.86	.01	.12
8:05	5	.87	.01	.12
8:10	5	.87	0	0
8:15	5	.88	.01	.12
8:20	5	.89	.01	.12
8:25	5	.90	.01	.12
8:30	5	.91	.01	.12
8:50	20	.91	0	0
8:55	5	.92	.01	.12
9:00	5	.92	0	0
9:05	5	.93	.01	.12
9:10	5	.94	.01	.12
9:15	5	.95	.01	.12
9:20	5	.96	.01	.12

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
9:25 A.	5	.97	.01	.12
9:30	5	.97	0	0
9:35	5	.98	.01	.12
9:40	5	.99	.01	.12
9:45	5	1.03	.04	.48
9:50	5	1.04	.01	.12
9:55	5	1.05	.01	.12
10:00	5	1.08	.03	.36
10:05	5	1.09	.01	.12
10:10	5	1.10	.01	.12
10:15	5	1.12	.02	.24
10:20	5	1.13	.01	.12
10:25	5	1.14	.01	.12
10:30	5	1.15	.01	.12
10:35	5	1.16	.01	.12
10:40	5	1.17	.01	.12
10:50	10	1.18	.01	.06
11:00	10	1.19	.01	.06
11:20	20	1.19	0	0
11:25	5	1.20	.01	.12
11:30	5	1.21	.01	.12
11:35	5	1.22	.01	.12
11:40	5	1.23	.01	.12
11:50	10	1.24	.01	.06
12:20 A.	30	1.25	.01	.02

SPUR, TEXAS

Sheet 6 of 6 Sheets

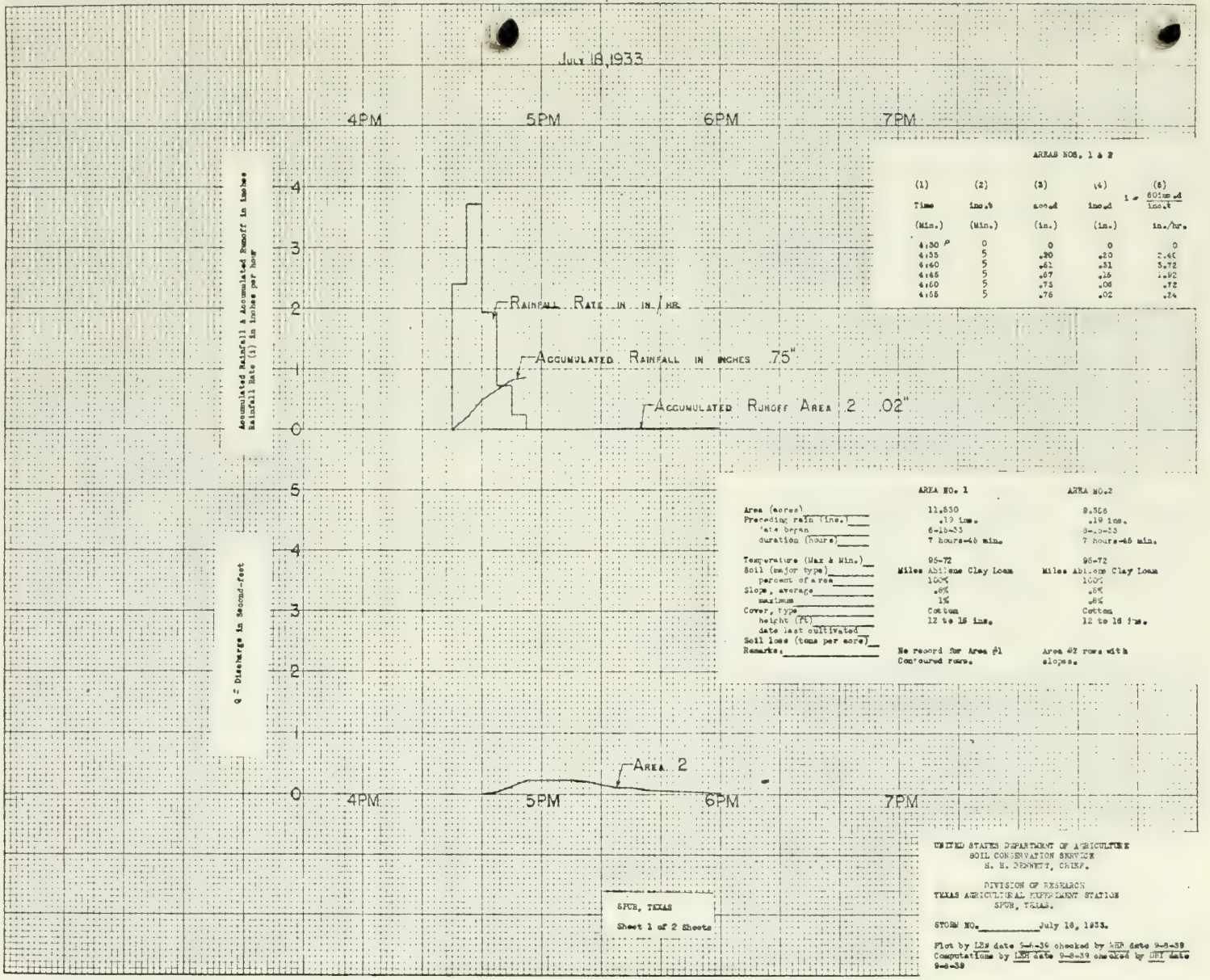
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ September 7, 1932.

Plot by LSM date 9-7-39 checked by RSD date 9-7-39.
Computations by MNS date 9-7-39 checked by LSM date 9-7-39.

July 18, 1933



AREAS NOS. 1 & 2

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
4:30 P	0	0	0	0
4:35	5	.20	.20	2.40
4:40	5	.51	.31	3.72
4:45	5	.67	.16	1.92
4:50	5	.73	.06	.72
4:55	5	.76	.02	.24

	AREA NO. 1	AREA NO.2
Area (acres)	11.830	9.506
Preceding rain (ins.)	.19 ins.	.19 ins.
date began	6-18-33	6-18-33
duration (hours)	7 hours-45 min.	7 hours-45 min.
Temperature (Max & Min.)	96-72	96-72
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	12 to 15 ins.	12 to 15 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks.	No record for Area #1 Contoured rows.	Area #2 rows with slopes.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

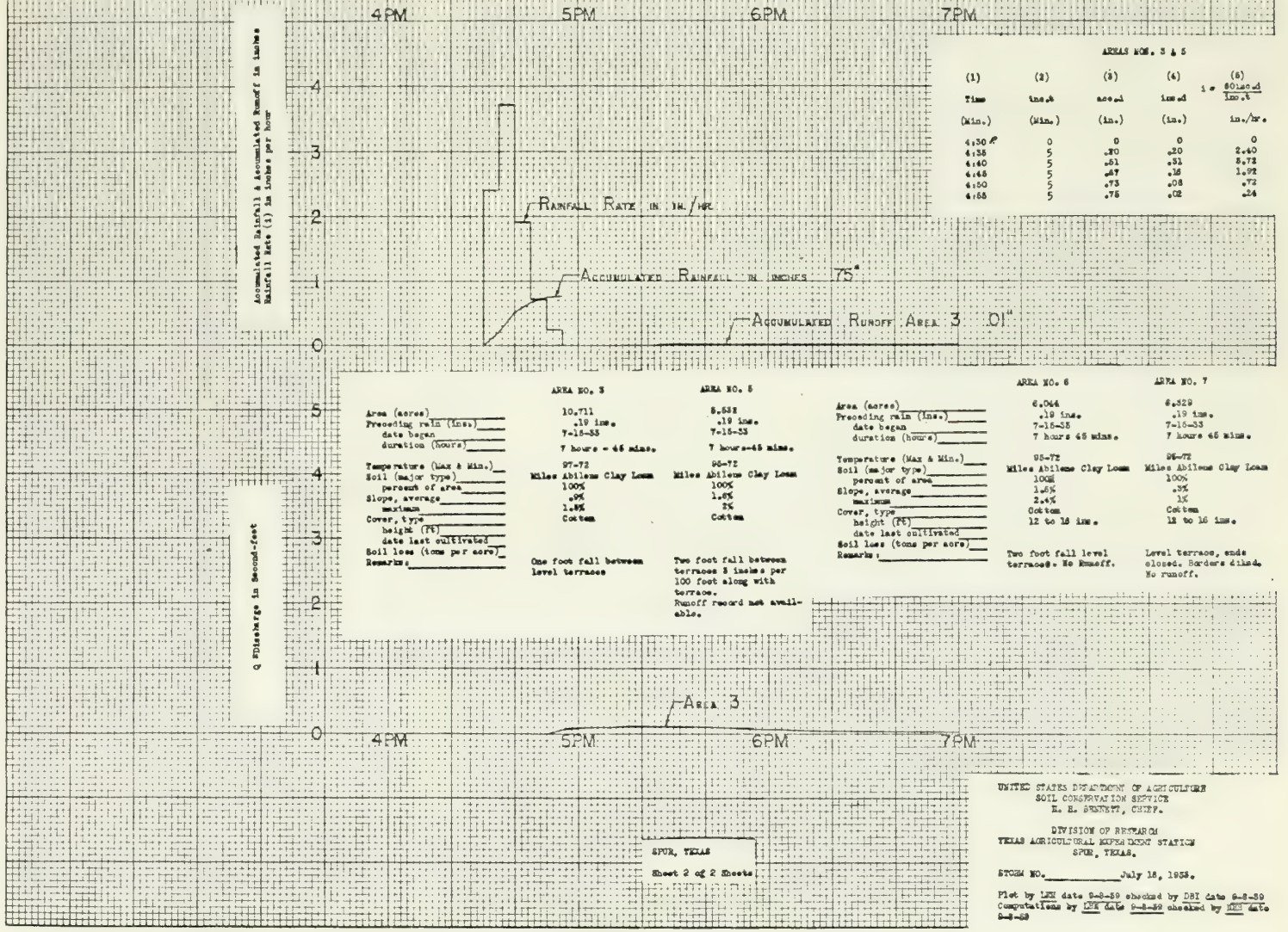
SPUR, TEXAS

Sheet 1 of 2 Sheets

STORM NO. July 18, 1933.

Plot by LEH date 9-8-39 checked by HER date 9-8-39
Computations by LEH date 9-8-39 checked by DEY date 9-8-39

July 18, 1933



AREAS NOS. 3 & 5

(1) Time	(2) t_m	(3) Σd_m	(4) $i_m d_m$	(5) $i = \frac{60 i_m d_m}{t_m}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
4:30 P	0	0	0	0
4:35	5	.20	.20	2.40
4:40	5	.51	.31	3.72
4:45	5	.67	.16	1.92
4:50	5	.73	.06	.72
4:55	5	.75	.02	.24

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	8.538
Preceding rain (ins.)	.19 ins.	.19 ins.
date began	7-15-33	7-15-33
duration (hours)	7 hours - 45 mins.	7 hours-45 mins.
Temperature (Max & Min.)	97-72	98-72
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.6%
maximum	1.8%	2%
Cover, type	Cotton	Cotton
height (Ft)		
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces	Two foot fall between terraces 3 inches per 100 foot along with terrace. Runoff record not available.

	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	8.329
Preceding rain (ins.)	.19 ins.	.19 ins.
date began	7-15-33	7-15-33
duration (hours)	7 hours 45 mins.	7 hours 45 mins.
Temperature (Max & Min.)	98-72	98-72
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft)	12 to 16 ins.	12 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall level terraces. No Runoff.	Level terrace, ends closed. Borders filled. No runoff.

SPUR, TEXAS

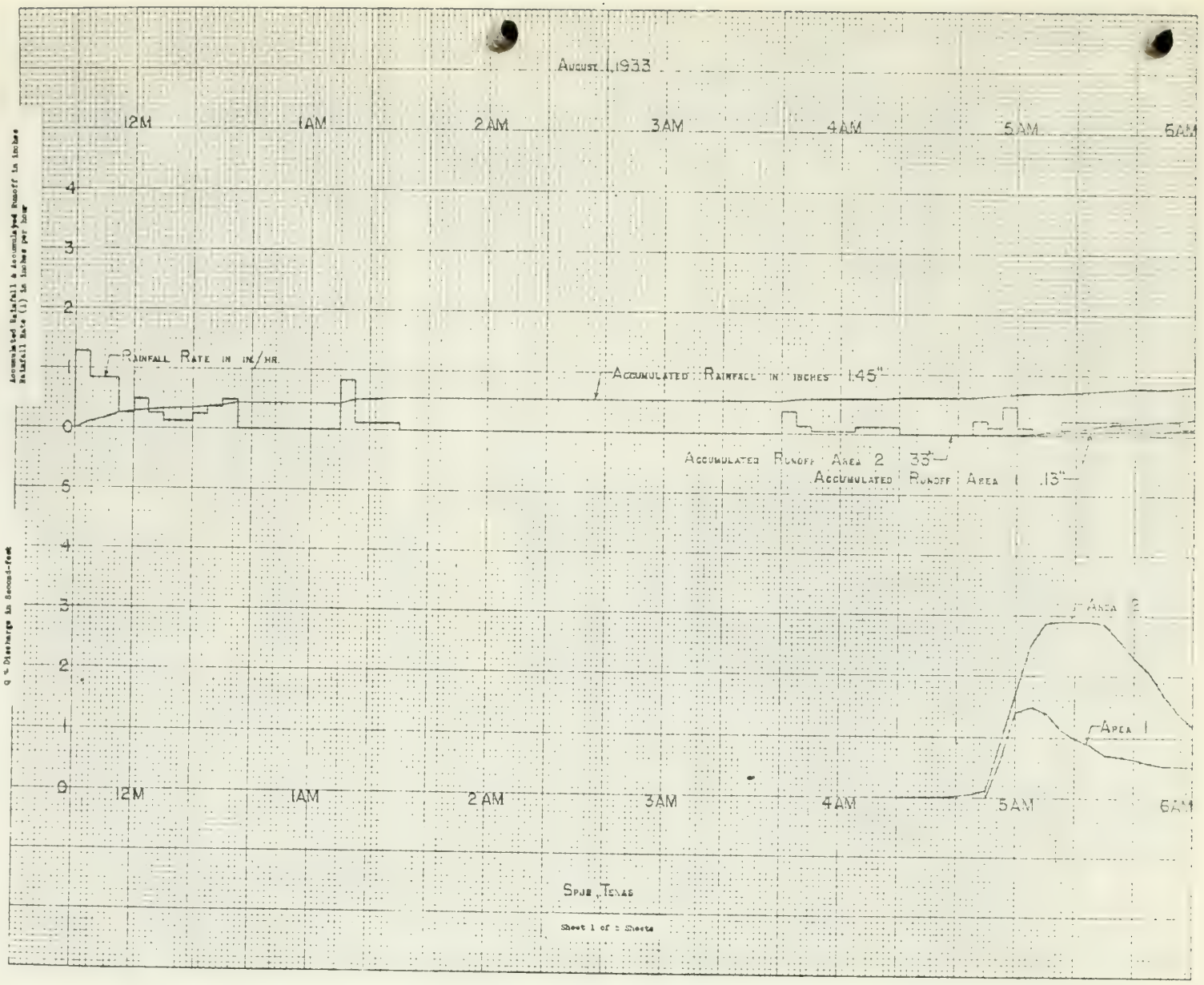
Sheet 2 of 2 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

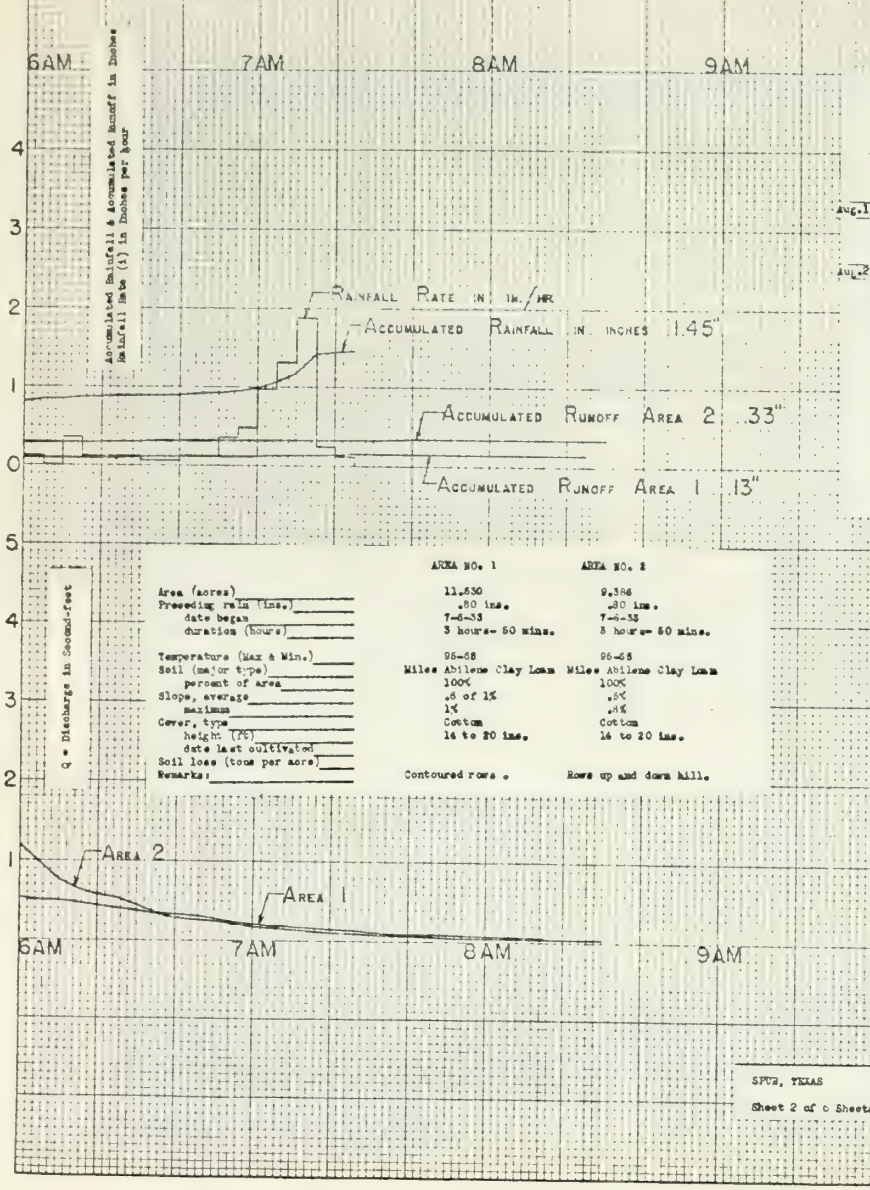
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ July 18, 1933.

Plot by LEH date 9-8-39 checked by DBI date 9-8-39
Computations by LEH date 9-8-39 checked by DBI date 9-8-39


August 1933
12M
1AM
2AM
3AM
4AM
5AM
6AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
Rainfall Rate in in/hr.
Accumulated Rainfall in Inches 1.45"
Accumulated Runoff Area 2 .35"
Accumulated Runoff Area 1 .13"
Q = Discharge in Second-feet
Area 2
Area 1
Spur, Texas
Sheet 1 of 2 Sheets

AUGUST 1, 1933.



AREAS NOS. 1 & 2

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) 60 inc.d / inc.t
(Min.)	(Min.)	(in.)	(in.)	in./hr.
Aug.1 11:40 P	0	0	0	0
11:45	5	.10	.10	1.28
11:50	5	.17	.07	.84
11:55	5	.24	.07	.84
12:00 M.	5	.26	.02	.24
Aug.2 12:05 A.	5	.30	.04	.48
12:10	5	.32	.02	.24
12:15	5	.33	.01	.12
12:20	5	.34	.01	.12
12:25	5	.36	.02	.24
12:30	5	.39	.03	.36
12:35	5	.43	.04	.48
1:10	35	.43	0	0
1:15	5	.50	.07	.84
1:20	5	.51	.01	.12
1:25	5	.52	.01	.12
1:30	5	.53	.01	.12
3:40	130	.53	0	0
3:45	5	.56	.03	.36
3:50	5	.57	.01	.12
4:05	15	.58	.01	.04
4:10	5	.59	.01	.12
4:15	5	.60	.01	.12
4:20	5	.61	.01	.12
4:45	25	.61	0	0
4:50	5	.63	.02	.24
4:55	5	.64	.01	.12
5:00	5	.68	.04	.48
5:06	5	.69	.01	.12
5:18	10	.69	0	0
5:20	5	.71	.02	.24
5:25	5	.73	.02	.24
5:30	5	.75	.02	.24
5:35	5	.77	.02	.24
5:40	5	.78	.01	.12
5:45	5	.79	.01	.12
5:50	5	.79	0	0
5:55	5	.81	.02	.24
6:00	5	.82	.01	.12
6:05	5	.83	.01	.12
6:10	5	.83	0	0
6:15	5	.86	.03	.36
6:20	5	.87	.01	.12
6:25	5	.88	.01	.12
6:30	5	.89	.01	.12
6:30	10	.90	.01	.06
6:45	5	.91	.01	.12
6:50	5	.92	.01	.12
6:55	5	.95	.03	.36
7:00	5	.99	.04	.96
7:05	5	1.07	.08	.96
7:10	5	1.18	.11	1.32
7:15	5	1.42	.24	2.88
7:20	5	1.44	.02	.24
7:25	5	1.45	.01	.12

	AREA NO. 1	AREA NO. 2
Area (acres)	11.530	9.386
Preceding rain (ins.)	.80 ins.	.80 ins.
date began	7-6-33	7-6-33
duration (hours)	3 hours- 50 mins.	3 hours- 50 mins.
Temperature (Max & Min.)	96-68	96-68
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of Area	100%	100%
Slope, average	.6 of 1%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	14 to 20 ins.	14 to 20 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured rows .	Rows up and down hill.

SPUR, TEXAS

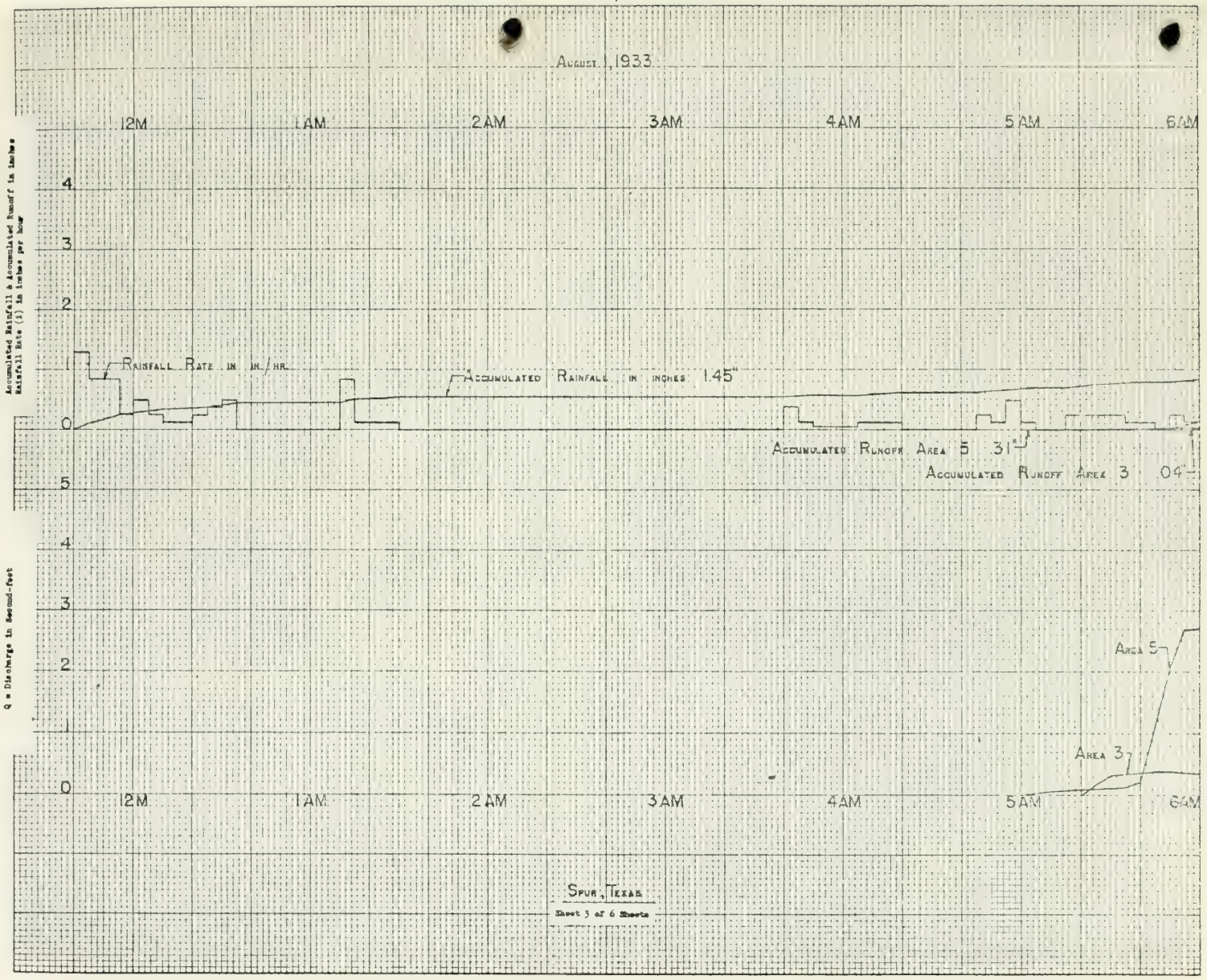
Sheet 2 of 6 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

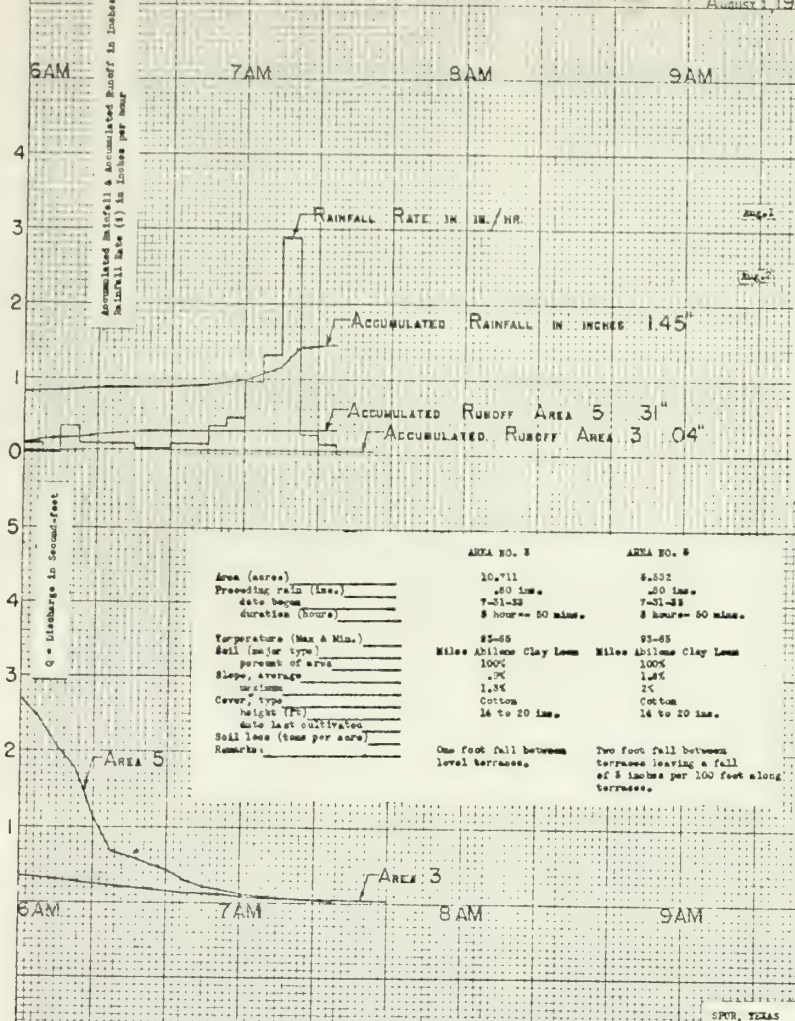
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. August 1, 1933.

Plot by LHB date 9-12-39 checked by MEB date 9-12-39.
Computations by MMC date 9-12-39 checked by LHB date 9-12-39
Sheet 2 of 2


August 1, 1933
12M
1AM
2AM
3AM
4AM
5AM
6AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
Rainfall Rate in in./hr.
Accumulated Rainfall in Inches 1.45"
Accumulated Runoff Area 5 .31"
Accumulated Runoff Area 3 .04"
Q = Discharge in Second-feet
Area 5
Area 3
Spur, Texas
Sheet 3 of 6 Sheets

August 1, 1933



AREAS NOS. 5 & 3

(1) Time (Min.)	(2) Inc.t (Min.)	(3) acc.d (in.)	(4) Inc.d (in.)	(5) 60 Inc.d / Inc.t in./hr.
11:40 A	0	0	0	0
11:45	5	.10	.107	1.28
11:50	5	.17	.07	.84
11:55	5	.24	.07	.84
12:00 M.	5	.28	.02	.24
12:05 A.	5	.30	.04	.48
12:10	5	.32	.02	.24
12:15	5	.33	.01	.12
12:20	5	.34	.01	.12
12:25	5	.36	.02	.24
12:30	5	.39	.03	.36
12:35	5	.43	.04	.48
1:10	35	.43	0	0
1:15	5	.50	.07	.84
1:20	5	.51	.01	.12
1:25	5	.52	.01	.12
1:30	5	.53	.01	.12
3:40	130	.53	0	0
3:45	5	.56	.03	.36
3:50	5	.57	.01	.12
4:05	15	.58	.01	.04
4:10	5	.59	.01	.12
4:15	5	.60	.01	.12

(1) Time (Min.)	(2) Inc.t (Min.)	(3) acc.d (in.)	(4) Inc.d (in.)	(5) 60 Inc.d / Inc.t in./hr.
4:20 A.	5	.61	.01	.12
4:45	25	.61	0	0
4:50	5	.63	.02	.24
4:55	5	.64	.01	.12
5:00	5	.68	.04	.48
5:05	5	.69	.01	.12
5:15	10	.69	0	0
5:20	5	.71	.02	.24
5:25	5	.73	.02	.24
5:30	5	.76	.02	.24
5:35	5	.77	.02	.24
5:40	5	.78	.01	.12
5:45	5	.79	.01	.12
5:50	5	.79	0	0
5:55	5	.81	.02	.24
6:00	5	.82	.01	.12
6:05	5	.83	.01	.12
6:10	5	.83	0	0
6:15	5	.86	.03	.36
6:20	5	.87	.01	.12
6:25	5	.88	.01	.12
6:30	5	.89	.01	.12

(1) Time (Min.)	(2) Inc.t (Min.)	(3) acc.d (in.)	(4) Inc.d (in.)	(5) 60 Inc.d / Inc.t in./hr.
6:40	10	.90	.01	.06
6:45	5	.91	.01	.12
6:50	5	.92	.01	.12
6:55	5	.95	.03	.36
7:00	5	.99	.04	.48
7:05	5	1.07	.08	.96
7:10	5	1.18	.11	1.32
7:15	5	1.42	.24	2.88
7:20	5	1.44	.02	.24
7:25	5	1.45	.01	.12

	AREA NO. 5	AREA NO. 3
Area (acres)	10.711	5.532
Preceding rain (Ins.)	.80 ins.	.80 ins.
date began	7-31-33	7-31-33
duration (hours)	8 hours- 80 mins.	8 hours- 80 mins.
Temperature (Max & Min.)	93-65	93-65
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.3%	1.4%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (Ft)	14 to 20 ins.	14 to 20 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces.	Two foot fall between terraces leaving a fall of 3 inches per 100 feet along terraces.

SPUR, TEXAS

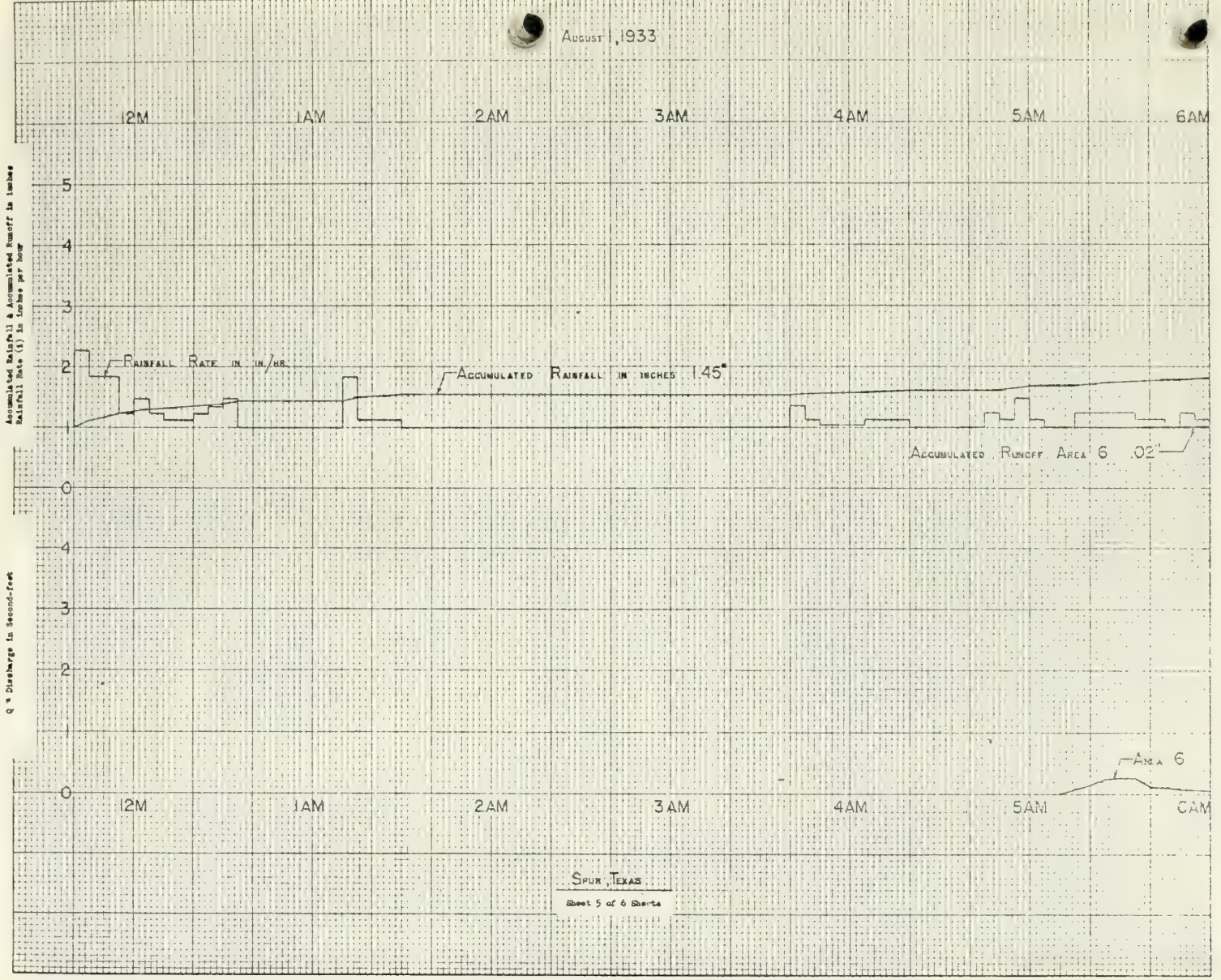
Sheet 4 of 6 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

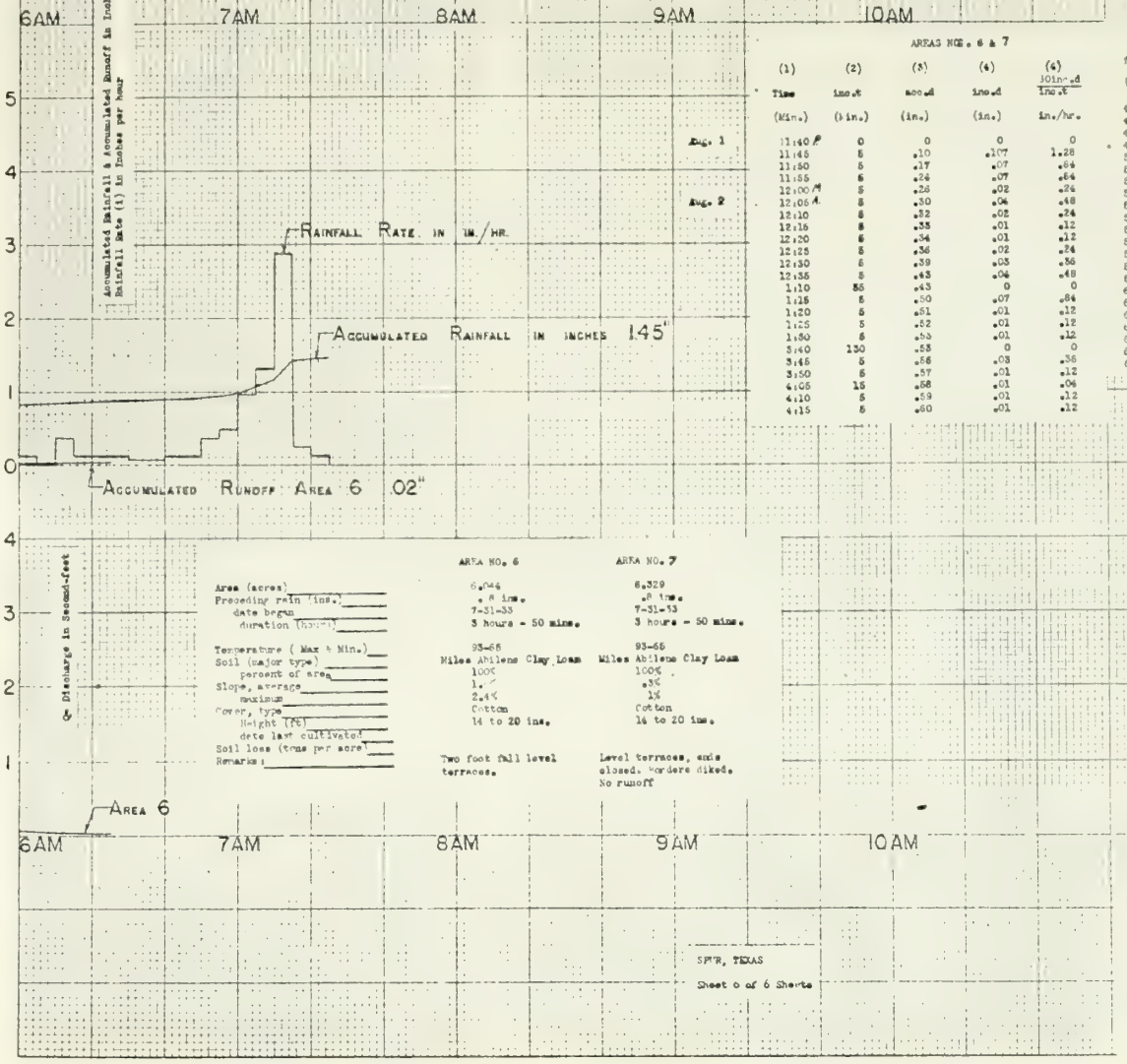
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. August 1, 1933.

Plot by LEH date 9-12-39 checked by NHB date 9-12-39.
Computations by NHB date 9-12-39 checked by LEH date 9-12-39


August 1, 1933
12M
1AM
2AM
3AM
4AM
5AM
6AM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
Q = Discharge in Second-feet
Rainfall Rate in in./hr.
Accumulated Rainfall in Inches 1.45"
Accumulated Runoff Area 6 .02"
Area 6
Spur, Texas
Sheet 5 of 6 Sheets

August 1, 1933



AREAS NOS. 6 & 7

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
11:40 P.	0	0	0	0
11:45	5	.10	.107	1.28
11:50	5	.17	.07	.84
11:55	5	.24	.07	.84
12:00 M.	5	.26	.02	.24
12:05 A.	5	.30	.04	.48
12:10	5	.32	.02	.24
12:15	5	.33	.01	.12
12:20	5	.34	.01	.12
12:25	5	.36	.02	.24
12:30	5	.39	.03	.36
12:35	5	.43	.04	.48
1:10	55	.43	0	0
1:15	5	.50	.07	.84
1:20	5	.51	.01	.12
1:25	5	.52	.01	.12
1:30	5	.53	.01	.12
3:40	130	.53	0	0
3:45	5	.56	.03	.36
3:50	5	.57	.01	.12
4:05	15	.58	.01	.04
4:10	5	.59	.01	.12
4:15	5	.60	.01	.12

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
6:20 A.	5	.61	.01	.12
4:45	25	.61	0	0
4:50	5	.63	.02	.24
4:55	5	.64	.01	.12
5:00	5	.66	.02	.24
5:06	5	.69	.01	.12
5:15	10	.69	0	0
5:20	5	.71	.02	.24
5:25	5	.73	.02	.24
5:30	5	.75	.02	.24
5:35	5	.77	.02	.24
5:40	5	.78	.01	.12
5:45	5	.79	.01	.12
5:50	5	.79	0	0
5:55	5	.81	.02	.24
6:00	5	.82	.01	.12
6:05	5	.83	.01	.12
6:10	5	.83	0	.0
6:15	5	.86	.03	.36
6:20	5	.87	.01	.12
6:25	5	.88	.01	.12
6:30	5	.89	.01	.12

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
6:40	10	.90	.01	.06
6:45	5	.91	.01	.12
6:50	5	.92	.01	.12
6:55	5	.93	.03	.36
7:00	5	.99	.04	.48
7:05	5	1.07	.08	.96
7:10	5	1.18	.11	.32
7:15	5	1.42	.24	.48
7:20	5	1.44	.02	.24
7:25	5	1.45	.01	.12

	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	8.329
Preceding rain (ins.)	.8 ins.	.8 ins.
date begun	7-31-33	7-31-33
duration (hours)	3 hours - 50 mins.	3 hours - 50 mins.
Temperature (Max & Min.)	93-66	93-66
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.%	.3%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
Height (ft)	14 to 20 ins.	14 to 20 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall level terraces.	Level terraces, ends closed. Borders diked. No runoff

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, Chief

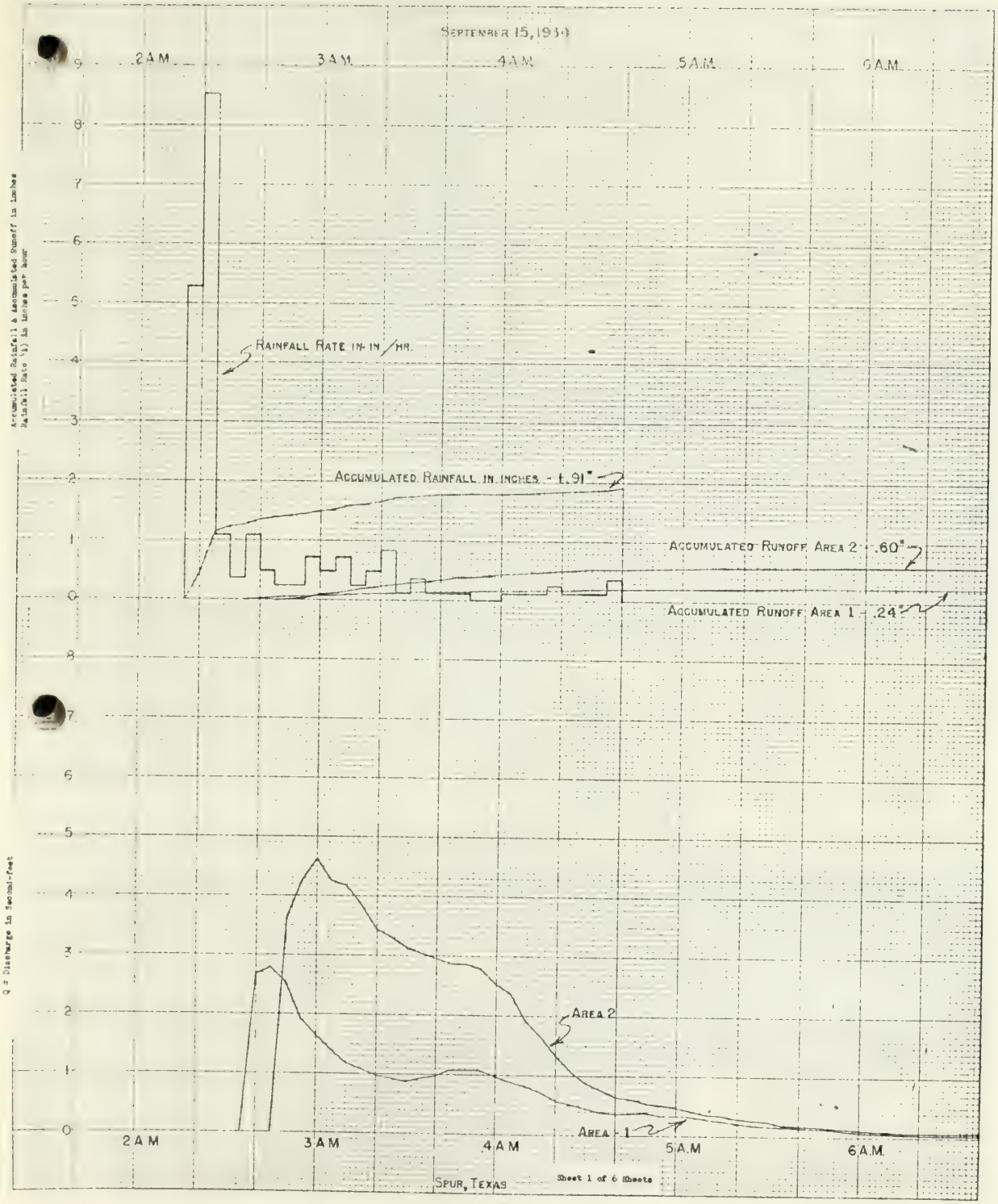
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
COLLEGE STATION, TEXAS.

SPUR, TEXAS

Sheet 6 of 6 Sheets

STORM NO. August 1, 1933.

Plot by LBN date 9-12-39 checked by MJP date 9-12-39.
Computations by MJP date 9-12-39 checked by LBN date 9-12-39


SEPTEMBER 15, 1934
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate in Inches per Hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES - 1.91"
ACCUMULATED RUNOFF AREA 2 - .60"
ACCUMULATED RUNOFF AREA 1 - .24"
Q = Discharge in Second-Feet
AREA 2
AREA 1
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
SPUR, TEXAS
Sheet 1 of 6 Sheets

SEPTEMBER 15, 1934

7 A.M. 8 A.M.

Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour

AREAS NOS. 1 & 2

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i = \frac{60 ins.d}{ins.t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
2:15 A	0	0	0	0
2:20	5	.44	.44	5.28
2:25	5	1.15	.71	8.52
2:30	5	1.24	.09	1.08
2:35	5	1.27	.03	.36
2:40	5	1.36	.09	1.08
2:45	5	1.40	.04	.48
2:50	5	1.42	.02	.24
2:55	5	1.44	.02	.24
3:00	5	1.50	.06	.72
3:05	5	1.54	.04	.48
3:10	5	1.60	.06	.72
3:15	5	1.62	.02	.24
3:20	5	1.66	.04	.48
3:25	5	1.73	.07	.84

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i = \frac{60 ins.d}{ins.t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
3:30 A	5	1.74	.01	.12
3:35	5	1.77	.03	.36
3:40	5	1.78	.01	.12
3:45	5	1.79	.01	.12
3:50	5	1.80	.01	.12
3:55	5	1.80	0	0
4:00	5	1.80	0	0
4:05	5	1.81	.01	.12
4:10	5	1.82	.01	.12
4:15	5	1.83	.01	.12
4:20	5	1.85	.02	.24
4:25	5	1.86	.01	.12
4:30	5	1.87	.01	.12
4:35	5	1.88	.01	.12
4:40	5	1.91	.03	.36

ACCUMULATED RUNOFF AREA 2 - .60"

ACCUMULATED RUNOFF AREA 1 - .24"

	AREA NO. 1	AREA No. 2
Area (acres)	11.530	9.386
Preceding rain (ins.)	.2 ins.	.2 ins.
date began	8-31-34	8-31-34
duration (hours)	60 mins.	60 mins.
Temperature (Max & Min.)	86-68	86-68
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.8%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	8 to 16 ins.	8 to 16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows with slope.

Q = Discharge in Second-feet

AREA 2

7 A.M. AREA-1 8 A.M.

SPUR, TEXAS

Sheet 2 of 6 Sheets

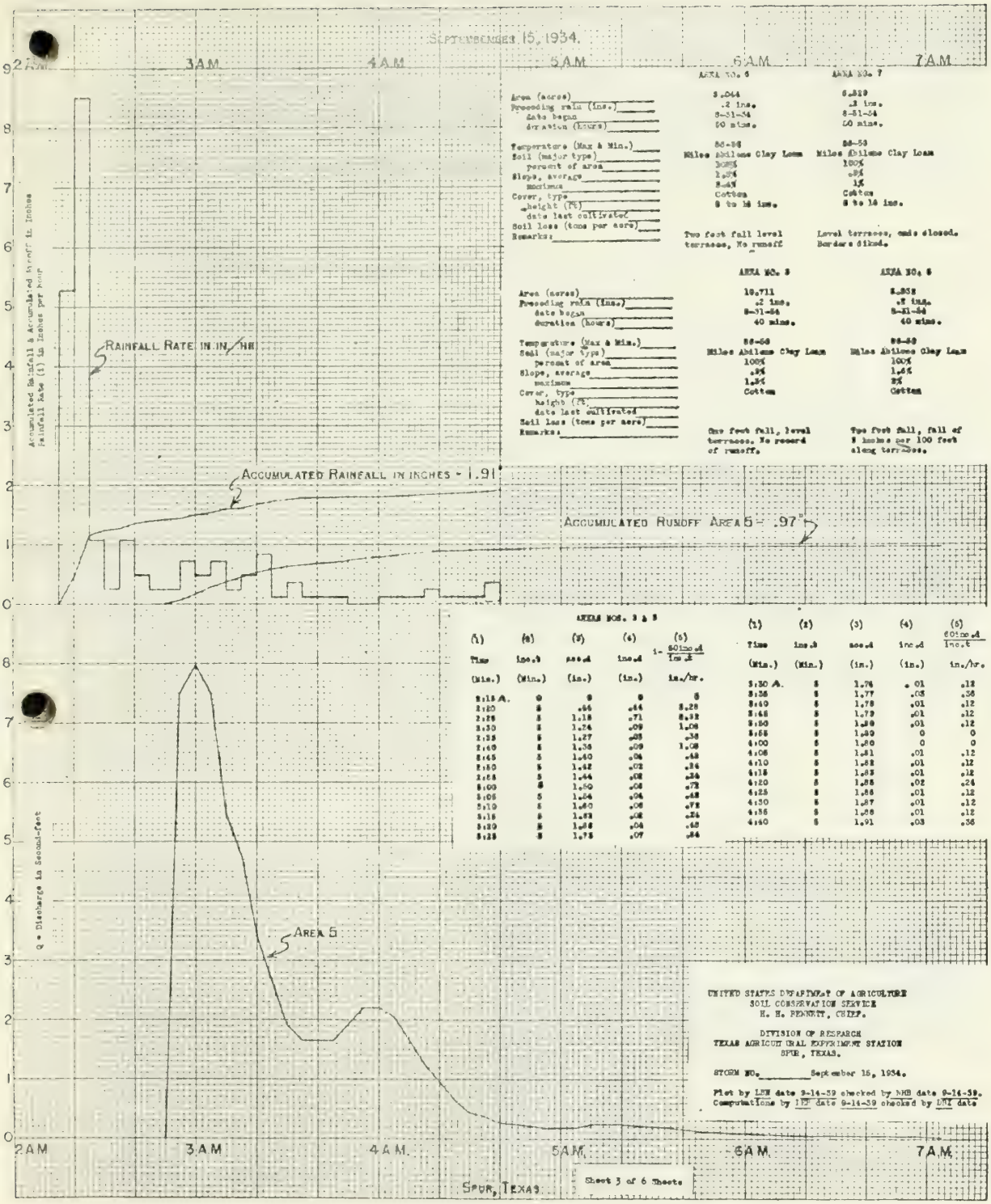
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION

STORM NO. _____ September 15, 1934.

Plot by LHN date 9-14-39 checked by WRB date 9-14-39.
Computations by LHN date 9-14-39 checked by DBI date 9-14-39

SEPTEMBER 15, 1934.



	AREA NO. 6	AREA NO. 7
Area (acres)	8.044	6.339
Preceding rain (ins.)	.2 ins.	.3 ins.
Date began	8-31-34	8-31-34
Duration (hours)	40 mins.	40 mins.
Temperature (Max & Min.)	86-56	86-56
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
Percent of area	100%	100%
Slope, average	1.5%	.5%
Maximum	3.4%	1%
Cover, type	Cotton	Cotton
Height (ft)	8 to 14 ins.	8 to 14 ins.
Date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall level terraces, No runoff	Level terraces, ends closed. Borders diked.

	AREA NO. 8	AREA NO. 9
Area (acres)	10.711	8.858
Preceding rain (ins.)	.2 ins.	.2 ins.
Date began	8-31-34	8-31-34
Duration (hours)	40 mins.	40 mins.
Temperature (Max & Min.)	86-56	86-56
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
Percent of area	100%	100%
Slope, average	.9%	1.6%
Maximum	1.3%	2%
Cover, type	Cotton	Cotton
Height (ft)		
Date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall, level terraces. No record of runoff.	Two foot fall, fall of 2 inches per 100 feet along terraces.

AREAS NOS. 5 & 6

(1) Time	(2) ins.d	(3) sec.d	(4) ins.d	(5) $1-\frac{60\,ins.d}{ins.t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
2:15 A.	0	0	0	0
2:20	5	.44	.44	5.28
2:25	5	1.15	.71	8.52
2:30	5	1.24	.09	1.08
2:35	5	1.27	.03	.36
2:40	5	1.36	.09	1.08
2:45	5	1.40	.04	.48
2:50	5	1.42	.02	.24
2:55	5	1.44	.02	.24
3:00	5	1.50	.06	.72
3:05	5	1.54	.04	.48
3:10	5	1.60	.06	.72
3:15	5	1.62	.02	.24
3:20	5	1.66	.04	.48
3:25	5	1.73	.07	.84

(1) Time	(2) ins.d	(3) sec.d	(4) ins.d	(5) $\frac{60\,ins.d}{ins.t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
3:30 A.	5	1.74	.01	.12
3:35	5	1.77	.03	.36
3:40	5	1.78	.01	.12
3:45	5	1.79	.01	.12
3:50	5	1.80	.01	.12
3:55	5	1.80	0	0
4:00	5	1.80	0	0
4:05	5	1.81	.01	.12
4:10	5	1.82	.01	.12
4:15	5	1.83	.01	.12
4:20	5	1.85	.02	.24
4:25	5	1.86	.01	.12
4:30	5	1.87	.01	.12
4:35	5	1.88	.01	.12
4:40	5	1.91	.03	.36

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ September 15, 1934.

Plot by LEH date 9-14-39 checked by NHB date 9-14-39.
Computations by LEH date 9-14-39 checked by DNH date

SPUR, TEXAS

SEPTEMBER 15, 1934.

8 A.M. 9 A.M. 10 A.M.

Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall rate (i) in inches per hour

Q = Discharge in Second-feet

ACCUMULATED RUNOFF AREA 11 = 55"

AREA 11

8 A.M. 9 A.M. 10 A.M.

AREAS NO. 11

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i = \frac{60 ins.d}{Ins.t}$
(Min.)	(Min.)	(ins.)	(ins.)	ins./hr.
2:15 A	0	0	0	0
2:20	5	.44	.44	5.28
2:25	5	1.15	.71	8.52
2:30	5	1.24	.09	1.08
2:35	5	1.27	.03	.36
2:40	5	1.36	.09	1.08
2:45	5	1.40	.04	.48
2:50	5	1.42	.02	.24
2:55	5	1.44	.02	.24
3:00	5	1.50	.06	.72
3:05	5	1.54	.04	.48
3:10	5	1.60	.06	.72
3:15	5	1.62	.02	.24
3:20	5	1.66	.04	.48
3:25	5	1.73	.07	.84
3:30 A	5	1.74	.01	.12
3:35	5	1.77	.03	.36
3:40	5	1.78	.01	.12
3:45	5	1.79	.01	.12
3:50	5	1.80	.01	.12
3:55	5	1.80	0	0
4:00	5	1.80	0	0
4:05	5	1.81	.01	.12
4:10	5	1.82	.01	.12
4:15	5	1.83	.01	.12
4:20	5	1.85	.02	.24
4:25	5	1.86	.01	.12
4:30	5	1.87	.01	.12
4:35	5	1.88	.01	.12
4:40	5	1.91	.03	.36

AREA NO. 11

Area (acres)	8.699
Preceding rain (Ins.)	.20 ins.
date began	8-31-34
duration (hours)	45 mins.
Temperature (Max & Min.)	86-66
Soil (major type)	Miles Abilene Clay Loam
percent of area	100%
Slope, average	.6of 1%
maximum	1%
Cover, type	Cotton
height (ft)	8 to 16 ins.
date last cultivated	
Soil loss (tons per acre)	
Remarks:	Rows with slopes.

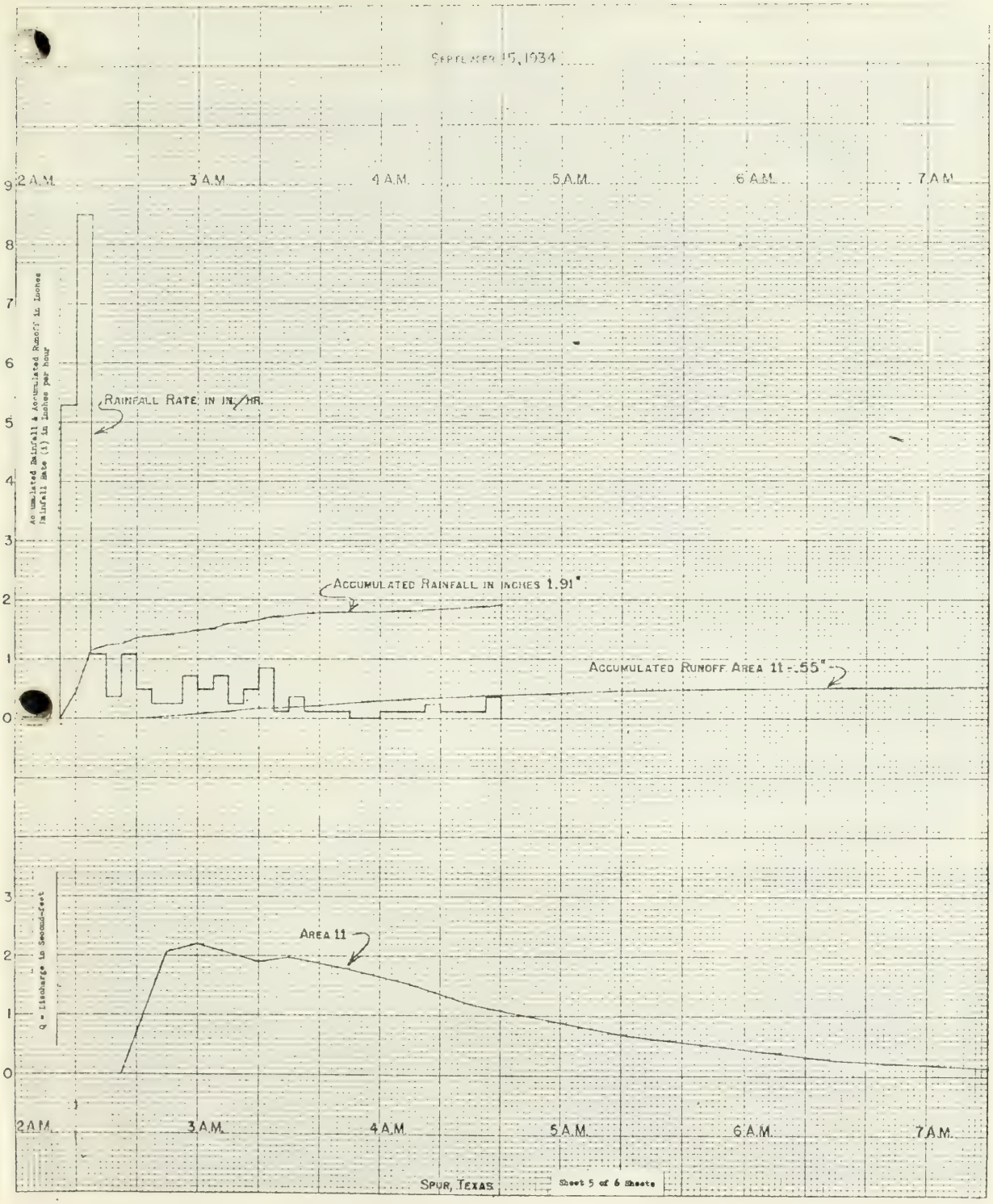
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

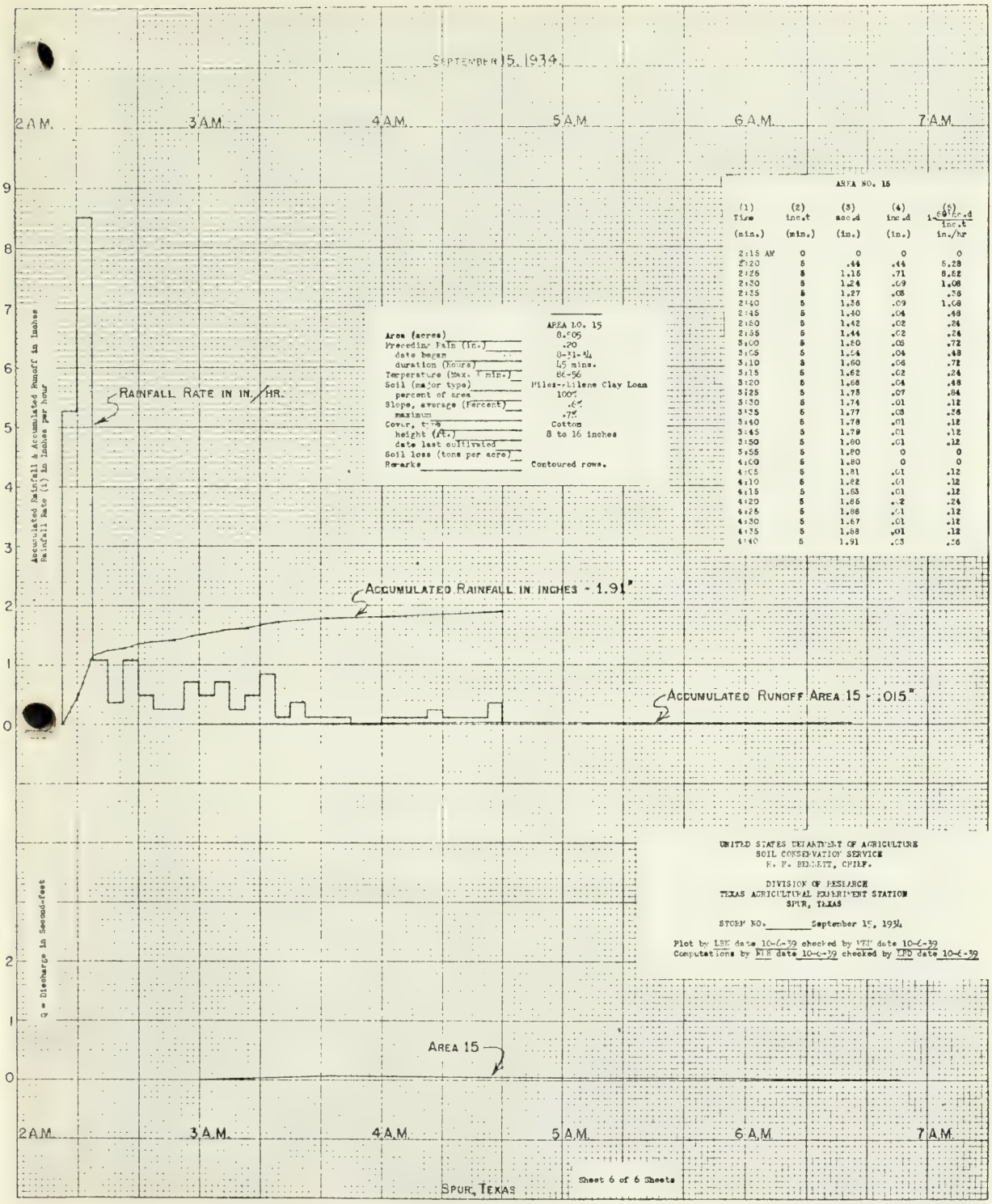
STORM NO. September 15, 1934.

Plot by LEH date 10-5-39 checked by NHB date 10-6-39
Computations by NHB date 10-6-39 checked by LEH date 10-6-39

SPUR, TEXAS. Sheet 4 of 6 Sheets


SEPTEMBER 15, 1934
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES 1.91"
ACCUMULATED RUNOFF AREA 11 - .55"
Q = Discharge in Second-Feet
AREA 11
SPUR, TEXAS
Sheet 5 of 6 Sheets

SEPTEMBER 15, 1934



	AREA NO. 15
Area (acres)	8.505
Preceding Rain (In.)	.20
date began	8-31-34
duration (hours)	45 mins.
Temperature (Max. - Min.)	86-56
Soil (major type)	Miles--Milsen Clay Loam
percent of area	100%
Slope, average (Percent)	.6%
maximum	.7%
Cover, type	Cotton
height (ft.)	8 to 16 inches
date last cultivated	
Soil loss (tons per acre)	
Remarks	Contoured rows.

AREA NO. 15

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr
2:15 AM	0	0	0	0
2:20	5	.44	.44	5.28
2:25	5	1.15	.71	8.52
2:30	5	1.24	.09	1.08
2:35	5	1.27	.03	.36
2:40	5	1.36	.09	1.08
2:45	5	1.40	.04	.48
2:50	5	1.42	.02	.24
2:55	5	1.44	.02	.24
3:00	5	1.50	.06	.72
3:05	5	1.54	.04	.48
3:10	5	1.60	.06	.72
3:15	5	1.62	.02	.24
3:20	5	1.66	.04	.48
3:25	5	1.73	.07	.84
3:30	5	1.74	.01	.12
3:35	5	1.77	.03	.36
3:40	5	1.78	.01	.12
3:45	5	1.79	.01	.12
3:50	5	1.80	.01	.12
3:55	5	1.80	0	0
4:00	5	1.80	0	0
4:05	5	1.81	.01	.12
4:10	5	1.82	.01	.12
4:15	5	1.83	.01	.12
4:20	5	1.85	.02	.24
4:25	5	1.86	.01	.12
4:30	5	1.87	.01	.12
4:35	5	1.88	.01	.12
4:40	5	1.91	.03	.36

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

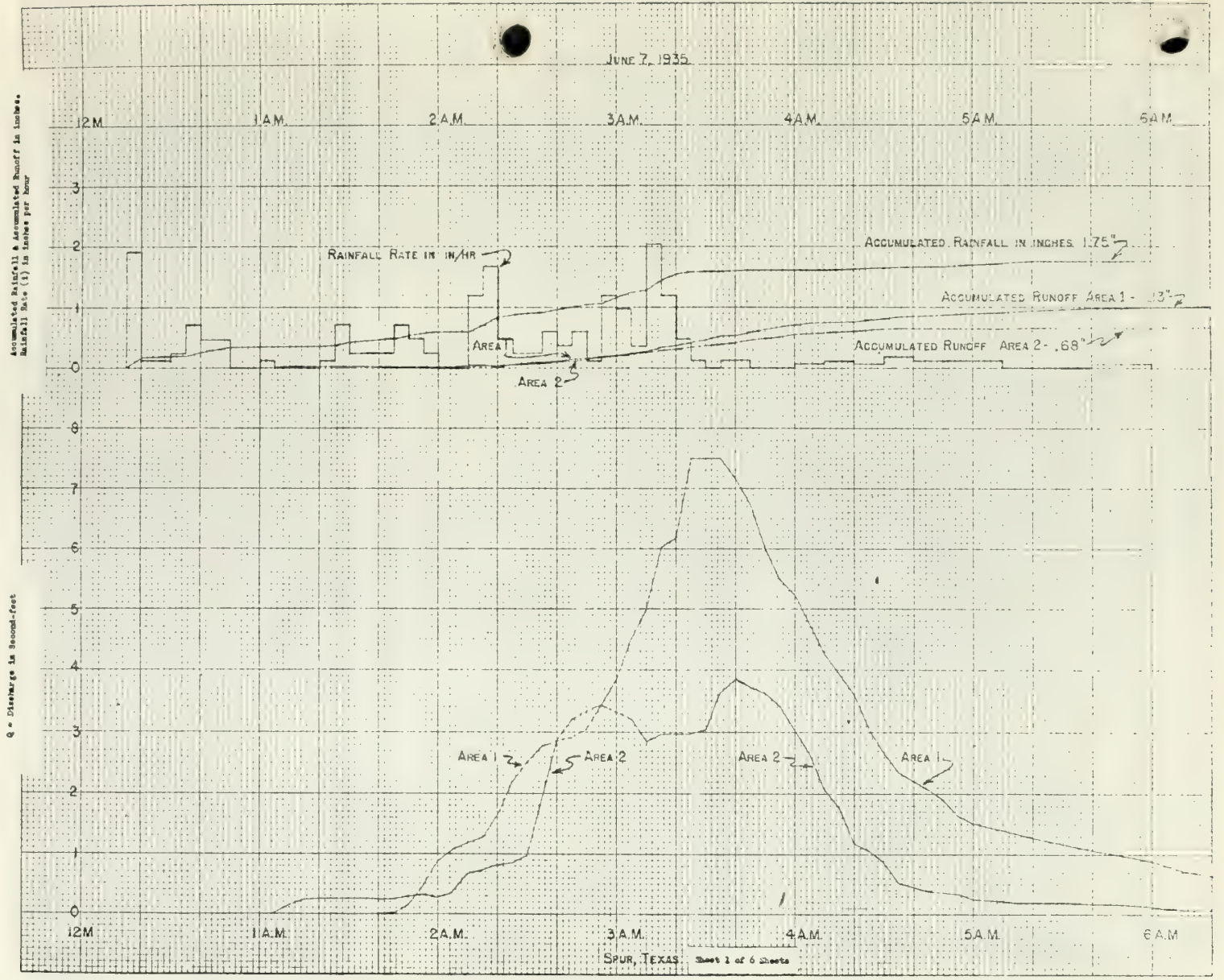
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

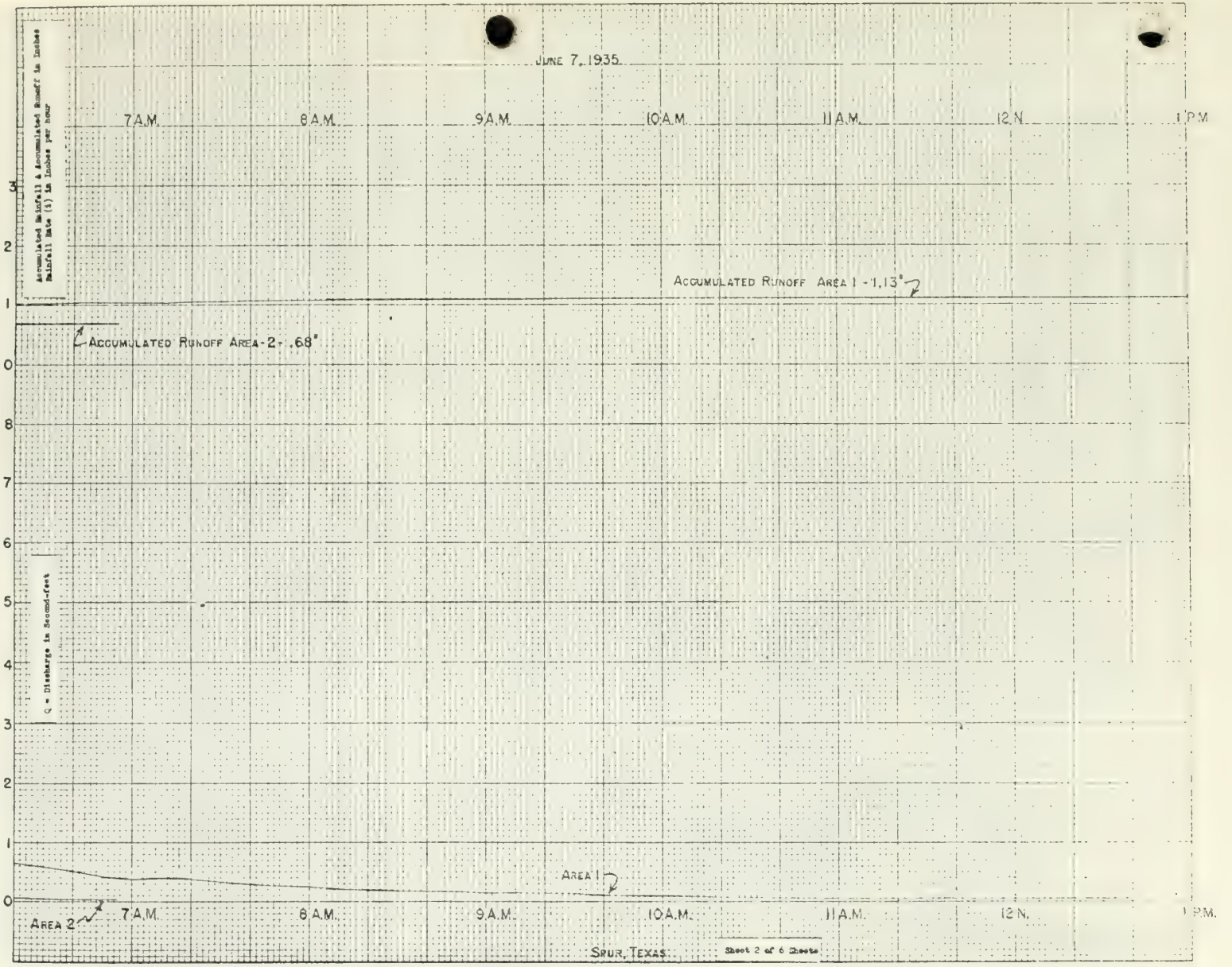
STORM NO. September 15, 1934

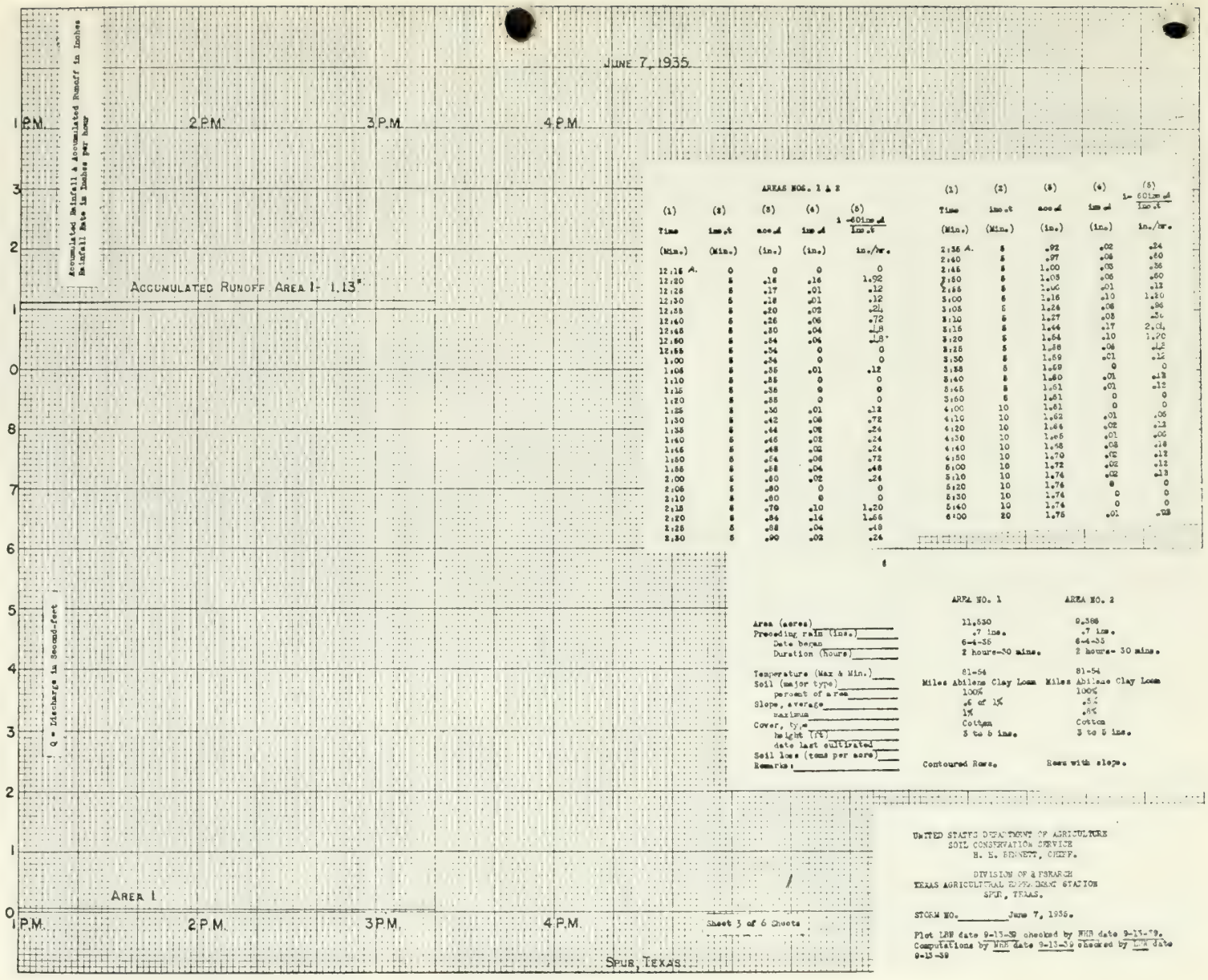
Plot by LBE date 10-6-39 checked by VTU date 10-6-39
Computations by NIB date 10-6-39 checked by LBD date 10-6-39

SPUR, TEXAS

Sheet 6 of 6 Sheets


JUNE 7, 1935
12M
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
Accumulated Rainfall & Accumulated Runoff in Inches.
Rainfall Rate (i) in Inches per hour
Q = Discharge in Second-feet
RAINFALL RATE IN IN/HR
ACCUMULATED RAINFALL IN INCHES 1.75"
ACCUMULATED RUNOFF AREA 1 - .13"
ACCUMULATED RUNOFF AREA 2 - .68"
AREA 1
AREA 2
AREA 1
AREA 2
AREA 2
AREA 1
SPUR, TEXAS
Sheet 1 of 6 Sheets


JUNE 7, 1935
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
12 N.
1 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Accumulated Runoff Area 1 - 1.13"
Accumulated Runoff Area-2-.68"
Q = Discharge in Second-feet
Area 1
Area 2
SRUR, TEXAS.
Sheet 2 of 6 Sheets



AREAS NOS. 1 & 2

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) 1 -60ins.d/ins.t
(Min.)	(Min.)	(in.)	(in.)	in./hr.
12:15 A.	0	0	0	0
12:20	5	.16	.16	1.92
12:25	5	.17	.01	.12
12:30	5	.18	.01	.12
12:35	5	.20	.02	.24
12:40	5	.26	.06	.72
12:45	5	.30	.04	.48
12:50	5	.34	.04	.48
12:55	5	.34	0	0
1:00	5	.34	0	0
1:05	5	.35	.01	.12
1:10	5	.35	0	0
1:15	5	.35	0	0
1:20	5	.35	0	0
1:25	5	.36	.01	.12
1:30	5	.42	.06	.72
1:35	5	.44	.02	.24
1:40	5	.46	.02	.24
1:45	5	.48	.02	.24
1:50	5	.54	.06	.72
1:55	5	.58	.04	.48
2:00	5	.60	.02	.24
2:05	5	.60	0	0
2:10	5	.60	0	0
2:15	5	.70	.10	1.20
2:20	5	.84	.14	1.68
2:25	5	.88	.04	.48
2:30	5	.90	.02	.24

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) 1- 60ins.d/ins.t
(Min.)	(Min.)	(in.)	(in.)	in./hr.
2:35 A.	5	.92	.02	.24
2:40	5	.97	.05	.60
2:45	5	1.00	.03	.36
2:50	5	1.05	.05	.60
2:55	5	1.06	.01	.12
3:00	5	1.16	.10	1.20
3:05	5	1.24	.08	.96
3:10	5	1.27	.03	.36
3:15	5	1.44	.17	2.04
3:20	5	1.54	.10	1.20
3:25	5	1.58	.04	.48
3:30	5	1.59	.01	.12
3:35	5	1.59	0	0
3:40	5	1.60	.01	.12
3:45	5	1.61	.01	.12
3:50	5	1.61	0	0
4:00	10	1.61	0	0
4:10	10	1.62	.01	.06
4:20	10	1.64	.02	.12
4:30	10	1.65	.01	.06
4:40	10	1.68	.03	.18
4:50	10	1.70	.02	.12
5:00	10	1.72	.02	.12
5:10	10	1.74	.02	.12
5:20	10	1.74	0	0
5:30	10	1.74	0	0
5:40	10	1.74	0	0
6:00	20	1.76	.02	.12

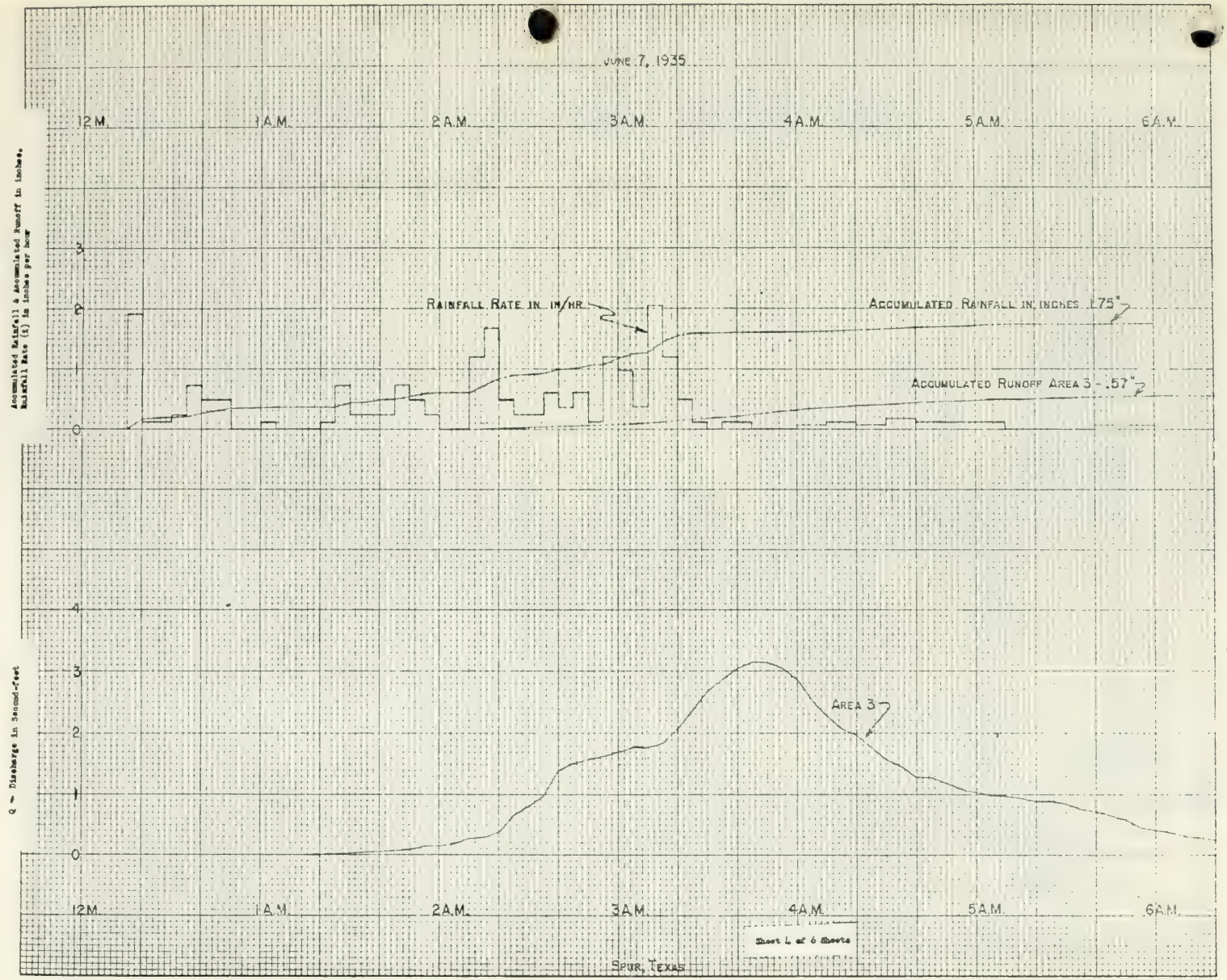
	AREA NO. 1	AREA NO. 2
Area (acres)	11,630	9,388
Preceding rain (ins.)	.7 ins.	.7 ins.
Date began	6-4-35	6-4-35
Duration (hours)	2 hours-30 mins.	2 hours- 30 mins.
Temperature (Max & Min.)	81-54	81-54
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6 of 1%	.5%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft.)	3 to 5 ins.	3 to 5 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows with slope.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. June 7, 1935.

Plot LRW date 9-13-39 checked by WHB date 9-13-39.
Computations by WHB date 9-13-39 checked by LRW date 9-13-39


JUNE 7, 1935
12 M.
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
Accumulated Rainfall & Accumulated Runoff in Inches.
Rainfall Rate (i) in Inches per Hour
RAINFALL RATE IN IN/HR.
ACCUMULATED RAINFALL IN INCHES 1.75"
ACCUMULATED RUNOFF AREA 3 - .57"
Q = Discharge in Second-feet
AREA 3
Sheet 4 of 6 Sheets
SPUR, TEXAS

JUNE 7, 1935

7 A.M. 8 A.M.

Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour

Q = Discharge in Second-feet

ACCUMULATED RUNOFF - AREA 3 - .57

AREA 3

7 A.M. 8 A.M.

AREAS NO. 5 & 6

(1) Time (Min.)	(2) Inc. t (Min.)	(3) acc. d (In.)	(4) Inc. d (In.)	(5) $\frac{60 \text{ Inc. } d}{\text{Inc. } t}$ In./hr.
12:15 A.	0	0	0	0
12:20	5	.16	.16	1.92
12:25	5	.17	.01	.12
12:30	5	.18	.01	.12
12:35	5	.20	.02	.24
12:40	5	.26	.06	.72
12:45	5	.30	.04	.48
12:50	5	.34	.04	.48
12:55	5	.34	0	0
1:00	5	.34	0	0
1:05	5	.35	.01	.12
1:10	5	.35	0	0
1:15	5	.35	0	0
1:20	5	.35	0	0
1:25	5	.36	.01	.12
1:30	5	.42	.06	.72
1:35	5	.44	.02	.24
1:40	5	.46	.02	.24
1:45	5	.46	.02	.24
1:50	5	.54	.06	.72
1:55	5	.58	.04	.48
2:00	5	.60	.02	.24
2:05	5	.60	0	0
2:10	5	.60	0	0
2:15	5	.70	.10	1.20
2:20	5	.86	.16	1.92
2:25	5	.91	.05	1.48
2:30	5	.93	.02	.24
2:35	5	.95	.02	.24
2:40	5	.97	.02	.24

(1) Time (Min.)	(2) Inc. t (Min.)	(3) acc. d (In.)	(4) Inc. d (In.)	(5) $\frac{60 \text{ Inc. } d}{\text{Inc. } t}$ In./hr.
2:45 A.	5	1.00	.03	.36
2:50	5	1.06	.06	.72
2:55	5	1.08	.01	.12
3:00	5	1.18	.10	1.20
3:05	5	1.24	.06	.72
3:10	5	1.27	.03	.36
3:15	5	1.44	.17	2.04
3:20	5	1.54	.10	1.20
3:25	5	1.58	.04	.48
3:30	5	1.59	.01	.12
3:35	5	1.59	0	0
3:40	5	1.60	.01	.12
3:45	5	1.61	.01	.12
3:50	5	1.61	0	0
4:00	10	1.61	0	0
4:10	10	1.62	.01	.06
4:20	10	1.64	.02	.12
4:30	10	1.65	.01	.06
4:40	10	1.68	.03	.18
4:50	10	1.70	.02	.12
5:00	10	1.72	.02	.12
5:10	10	1.74	.02	.12
5:20	10	1.74	0	0
5:30	10	1.74	0	0
5:40	10	1.74	0	0
6:00	20	1.75	.01	.03

	AREA NO. 5	AREA NO. 6
Area (Acres)	10.711	8.638
Preceding rain (Ins.)	.9 Ins.	.9 Ins.
date began	6-4-35	6-4-35
duration (Hours)	2 hours-30 mins.	2 hours-30 mins.
Temperature (Max & Min.)	81-54	81-54
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.8%	1.0%
maximum	1.0%	8%
Cover, type	Cotton	Cotton
height (Ft)	3 to 5 ins.	3 to 5 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces.	Two foot fall between terraces 3 inch fall per 100 foot along terraces. Record of runoff not available.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

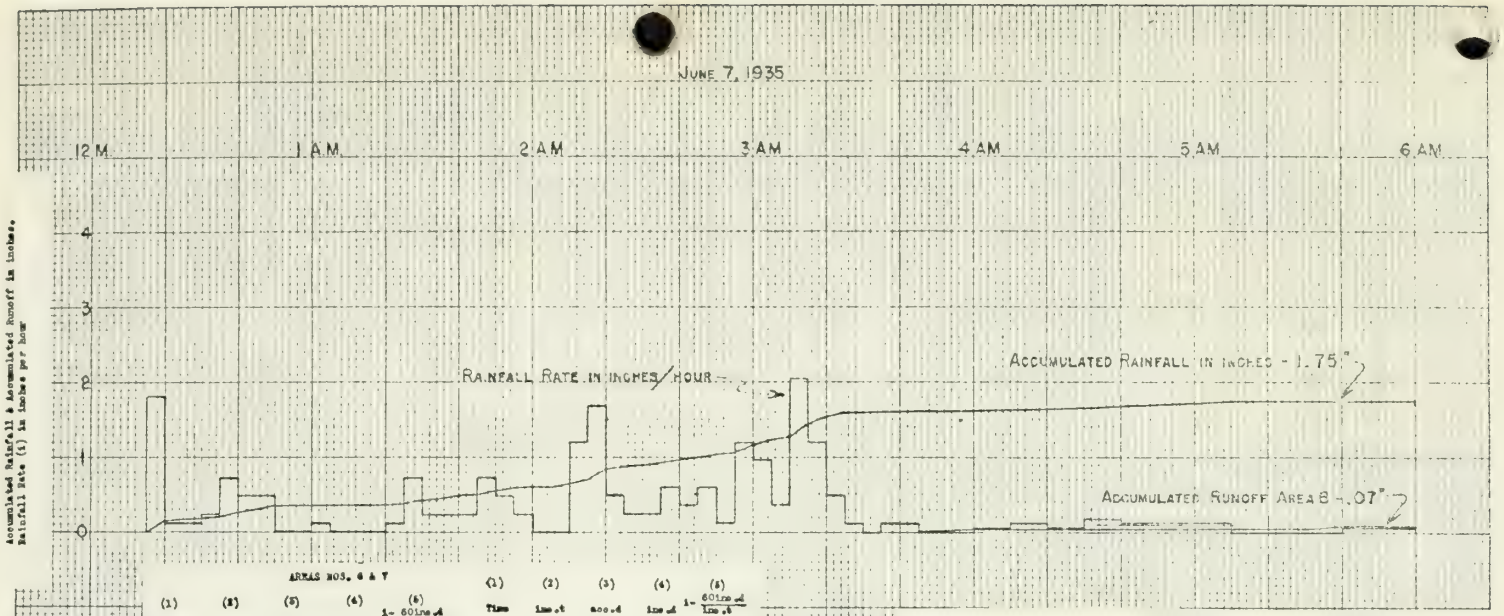
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 7, 1935.

Plot by LWB date 9-13-39 checked by WEB date 9-13-39.
Computations by WEB date 9-13-39 checked by LWB date 9-13-39

Sheet 5 of 6 Sheets

SPUR, TEXAS



AREAS NOS. 6 & 7

(1) Time (Min.)	(2) Δt (Min.)	(3) $\Sigma\Delta d$ (in.)	(4) Δd (in.)	(5) $i = \frac{60\Delta d}{\Delta t}$ in./hr.
12:15 A.	0	0	0	0
12:20	5	.18	.18	1.92
12:25	5	.19	.01	.12
12:30	5	.20	.01	.12
12:35	5	.22	.02	.24
12:40	5	.28	.06	.72
12:45	5	.30	.02	.24
12:50	5	.34	.04	.48
12:55	5	.34	0	0
1:00	5	.34	0	0
1:05	5	.35	.01	.12
1:10	5	.35	0	0
1:15	5	.35	0	0
1:20	5	.35	0	0
1:25	5	.36	.01	.12
1:30	5	.42	.06	.72
1:35	5	.44	.02	.24
1:40	5	.46	.02	.24
1:45	5	.48	.02	.24
1:50	5	.54	.06	.72
1:55	5	.58	.04	.48
2:00	5	.60	.02	.24
2:05	5	.60	0	0
2:10	5	.60	0	0
2:15	5	.70	.10	1.20
2:20	5	.84	.14	1.68
2:25	5	.88	.04	.48
2:30	5	.90	.02	.24

(1) Time (Min.)	(2) Δt (Min.)	(3) $\Sigma\Delta d$ (in.)	(4) Δd (in.)	(5) $i = \frac{60\Delta d}{\Delta t}$ in./hr.
2:35 A.	5	.92	.02	.24
2:40	5	.97	.05	.60
2:45	5	1.00	.03	.36
2:50	5	1.09	.05	.60
2:55	5	1.06	.01	.12
3:00	5	1.16	.10	1.20
3:05	5	1.24	.08	.96
3:10	5	1.27	.03	.36
3:15	5	1.44	.17	2.04
3:20	5	1.54	.10	1.20
3:25	5	1.58	.04	.48
3:30	5	1.59	.01	.12
3:35	5	1.59	0	0
3:40	5	1.60	.01	.12
3:45	5	1.61	.01	.12
3:50	5	1.61	0	0
4:00	10	1.61	0	0
4:10	10	1.62	.01	.06
4:20	10	1.64	.02	.12
4:30	10	1.65	.01	.06
4:40	10	1.68	.03	.18
4:50	10	1.70	.02	.12
5:00	10	1.72	.02	.12
5:10	10	1.74	.02	.12
5:20	10	1.74	0	0
5:30	10	1.74	0	0
5:40	10	1.74	0	0
6:00	20	1.75	.01	.06

	AREA NO. 6	AREA NO. 7
Area (acres)	8.044	6.429
Preceding rain (ins.)	.7 ins.	.7 ins.
date began	6-4-35	6-4-35
duration (hours)	2 hours - 30 mins.	2 hours - 30 mins.
Temperature (Max & Min.)	81-64	81-64
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
Percent of area	100%	100%
Slope, average	1.6%	.8%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (Ft.)	5 to 6 ins.	5 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces.	Level terraces. Borders diked. Ends closed. No runoff.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

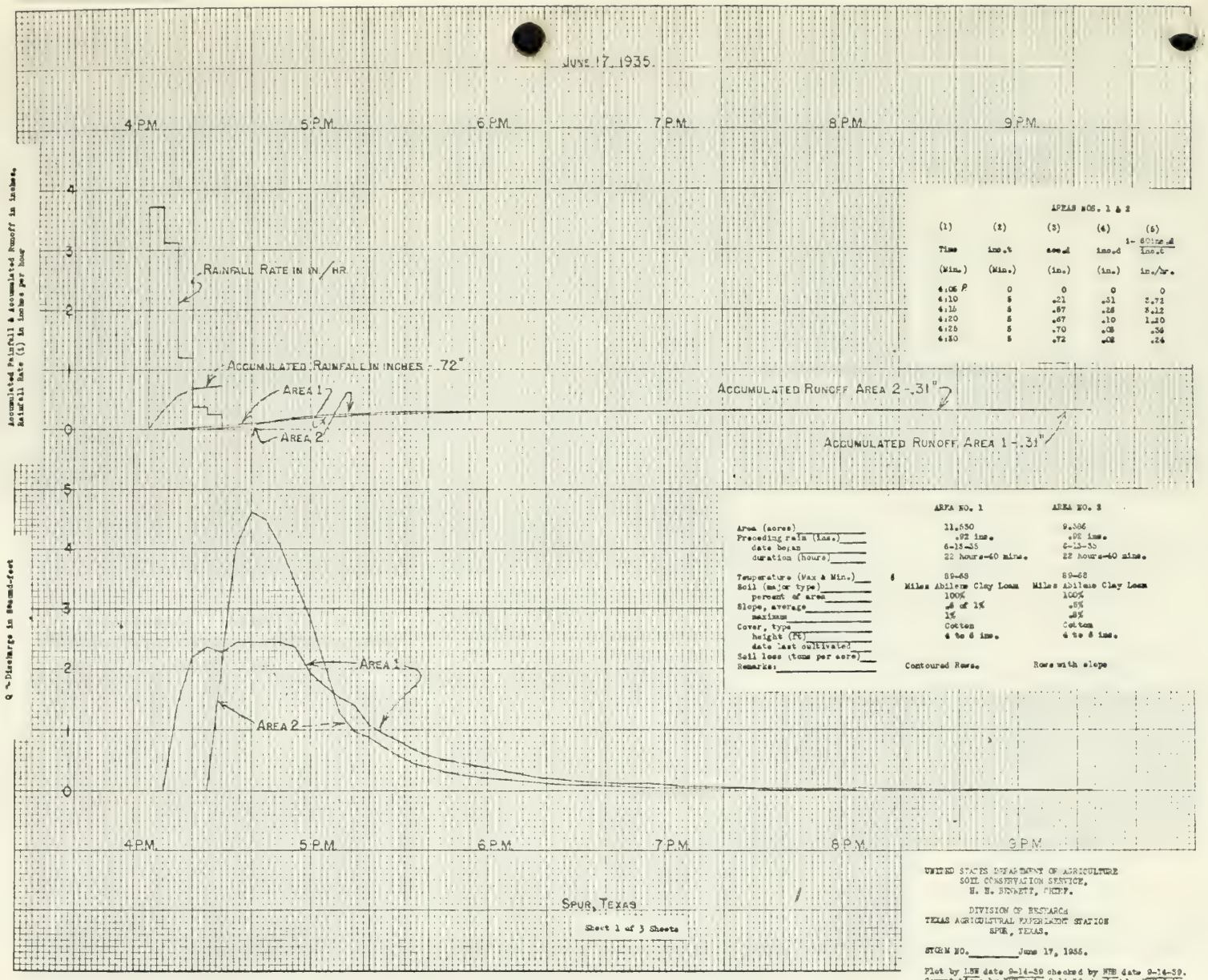
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 7th, 1935.

Plot by LEW date 9-13-39 checked by KHB date 9-13-39.
Computations by KHB date 9-13-39 checked by LEW date 9-13-39

SPUR, TEXAS

Sheet 6 of 6 Sheets



AREAS NOS. 1 & 2

(1) Time (Min.)	(2) ins.t (Min.)	(3) acc.d (in.)	(4) ins.d (in.)	(5) $1-\frac{60 \text{ ins.d}}{\text{ins.t}}$ in./hr.
4:05 P	0	0	0	0
4:10	5	.21	.31	3.72
4:15	5	.67	.28	3.12
4:20	5	.67	.10	1.20
4:25	5	.70	.03	.36
4:30	5	.72	.02	.24

	AREA NO. 1	AREA NO. 2
Area (acres)	11.550	9.386
Preceding rain (Ins.)	.92 ins.	.92 ins.
date began	6-15-35	6-15-35
duration (hours)	22 hours-40 mins.	22 hours-40 mins.
Temperature (Max & Min.)	89-68	89-68
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1%	.8%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	4 to 6 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows with slope

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE,
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

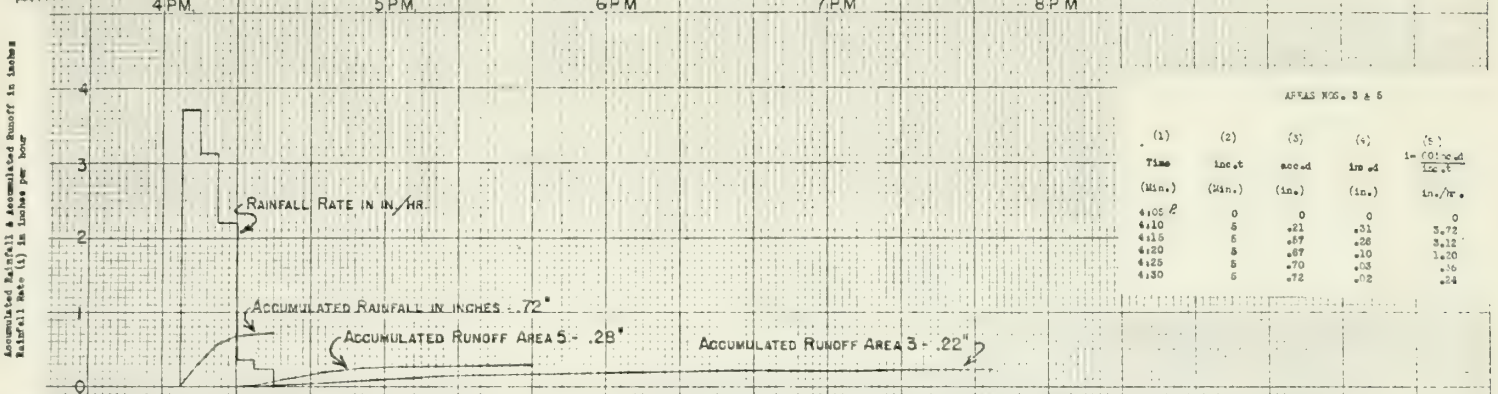
STORM NO. _____ June 17, 1935.

Plot by LSH date 9-14-39 checked by WHB date 9-14-39.
Computations by WHB date 9-14-39 checked by WHB date 9-14-39

Spur, Texas

Sheet 1 of 3 Sheets

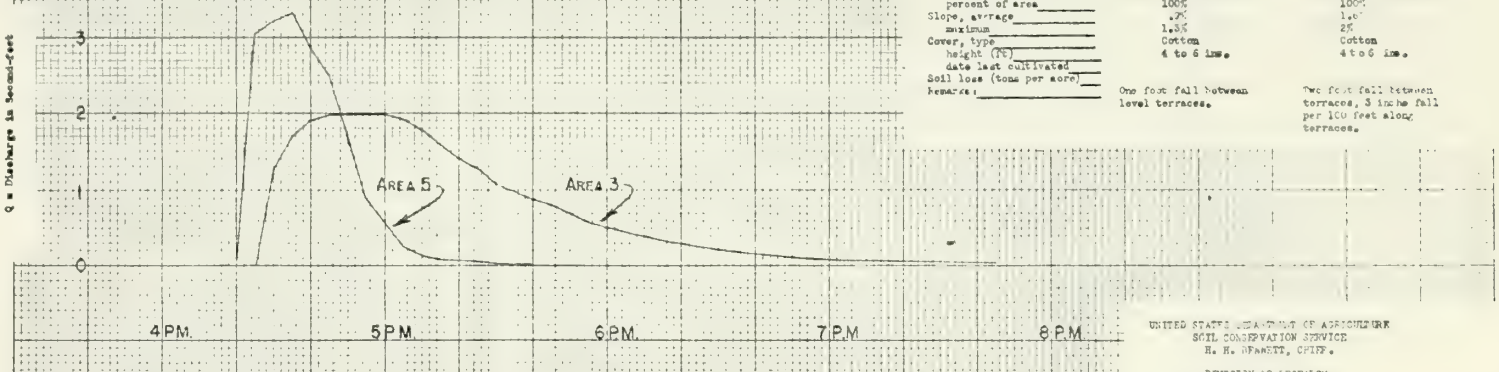
JUNE 17, 1935.



AREAS NOS. 3 & 5

(1) Time	(2) Inc.t	(3) accd	(4) Inc.d	(5) i = Col.4 / Col.2
(Min.)	(Min.)	(in.)	(in.)	in./hr.
4:05 P	0	0	0	0
4:10	5	.21	.31	3.72
4:15	5	.47	.26	3.12
4:20	5	.57	.10	1.20
4:25	5	.70	.03	.36
4:30	5	.72	.02	.24

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.532
Preceding rain (ins.)	.92 ins.	.92 ins.
date began	6-13-35	6-13-35
duration (hours)	22 hours - 40 mins.	22 hours -40 mins.
Temperature (Max & Min.)	89-68	89-68
Soil - major type	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.7%	1.0%
maximum	1.3%	2%
Cover, type	Cotton	Cotton
height (Ft)	4 to 6 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces.	Two foot fall between terraces, 3 inche fall per 100 feet along terraces.



SPUR, TEXAS

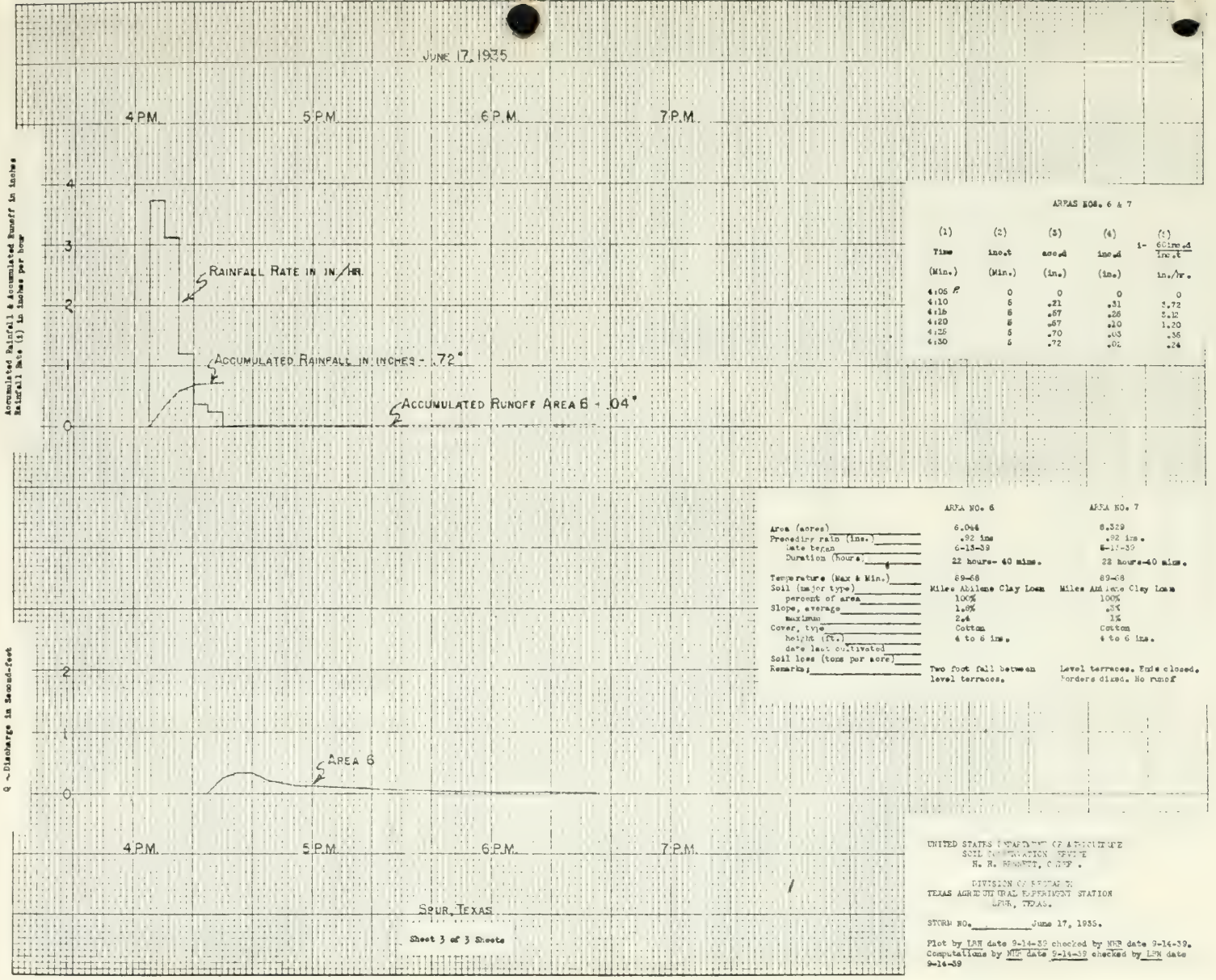
Sheet 2 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 17, 1935.

Plot by [illegible] date 9-10-39 checked by [illegible] date 9-10-39.
Computations by MPH date 9-10-39 checked by [illegible] date 9-10-39



AREAS NOS. 6 & 7

(1) Time (Min.)	(2) inc.t (Min.)	(3) acc.d (ins.)	(4) inc.d (ins.)	(5) $i = \frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
4:05 P	0	0	0	0
4:10	5	.21	.21	5.72
4:15	5	.57	.26	5.12
4:20	5	.67	.10	1.20
4:25	5	.70	.03	.36
4:30	5	.72	.02	.24

	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	8.329
Preceding rain (ins.)	.92 ins	.92 ins.
Date taken	6-13-39	6-13-39
Duration (hours)	22 hours- 40 mins.	22 hours-40 mins.
Temperature (Max & Min.)	89-68	89-68
Soil (major type)	Miles Abilene Clay Loam	Miles Ambrose Clay Loam
percent of area	100%	100%
Slope, average	1.0%	.5%
Maximum	2.4	1%
Cover, type	Cotton	Cotton
height (ft.)	4 to 8 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks;	Two foot fall between level terraces.	Level terraces. Ends closed. Borders diked. No runoff

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

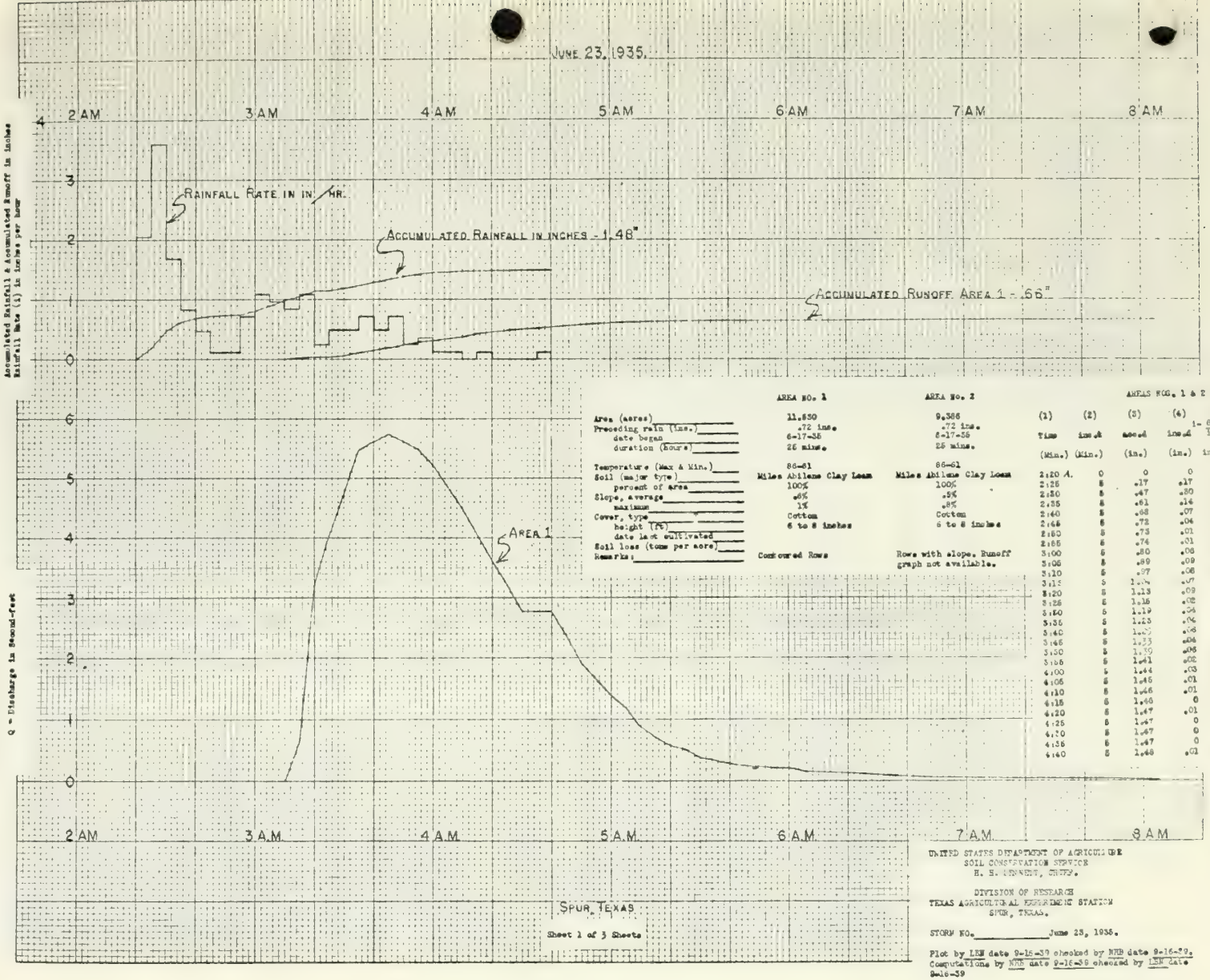
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 17, 1935.

Plot by LAH date 9-14-39 checked by MHB date 9-14-39.
Computations by MHB date 9-14-39 checked by LFH date 9-14-39

SPUR, TEXAS

Sheet 3 of 3 Sheets



	AREA NO. 1	AREA No. 2
Area (acres)	11.850	9.386
Preceding rain (Ins.)	.72 ins.	.72 ins.
date began	6-17-35	6-17-35
duration (Hours)	26 mins.	25 mins.
Temperature (Max & Min.)	86-61	86-61
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.5%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	6 to 8 inches	6 to 8 inches
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows	Rows with slope. Runoff graph not available.

AREAS NOS. 1 & 2

(1) Time	(2) Inc. t	(3) accd	(4) Inc. d	(5) $i = \frac{60 \text{ Inc. d}}{\text{Inc. t}}$
	(Min.)	(Min.)	(in.)	(in.)	in./hr.
2:20 A.	0	0	0	0	0
2:25	5	.17	.17	2.04
2:30	5	.47	.30	3.60
2:35	5	.61	.14	1.68
2:40	5	.68	.07	.84
2:45	5	.72	.04	.48
2:50	5	.73	.01	.12
2:55	5	.74	.01	.12
3:00	5	.80	.06	.72
3:05	5	.89	.09	1.08
3:10	5	.97	.08	.96
3:15	5	1.04	.07	.84
3:20	5	1.13	.09	1.08
3:25	5	1.15	.02	.24
3:30	5	1.19	.04	.48
3:35	5	1.23	.04	.48
3:40	5	1.29	.06	.72
3:45	5	1.33	.04	.48
3:50	5	1.39	.06	.72
3:55	5	1.41	.02	.24
4:00	5	1.44	.03	.36
4:05	5	1.45	.01	.12
4:10	5	1.46	.01	.12
4:15	5	1.46	0	0
4:20	5	1.47	.01	.12
4:25	5	1.47	0	0
4:30	5	1.47	0	0
4:35	5	1.47	0	0
4:40	5	1.48	.01	.12

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

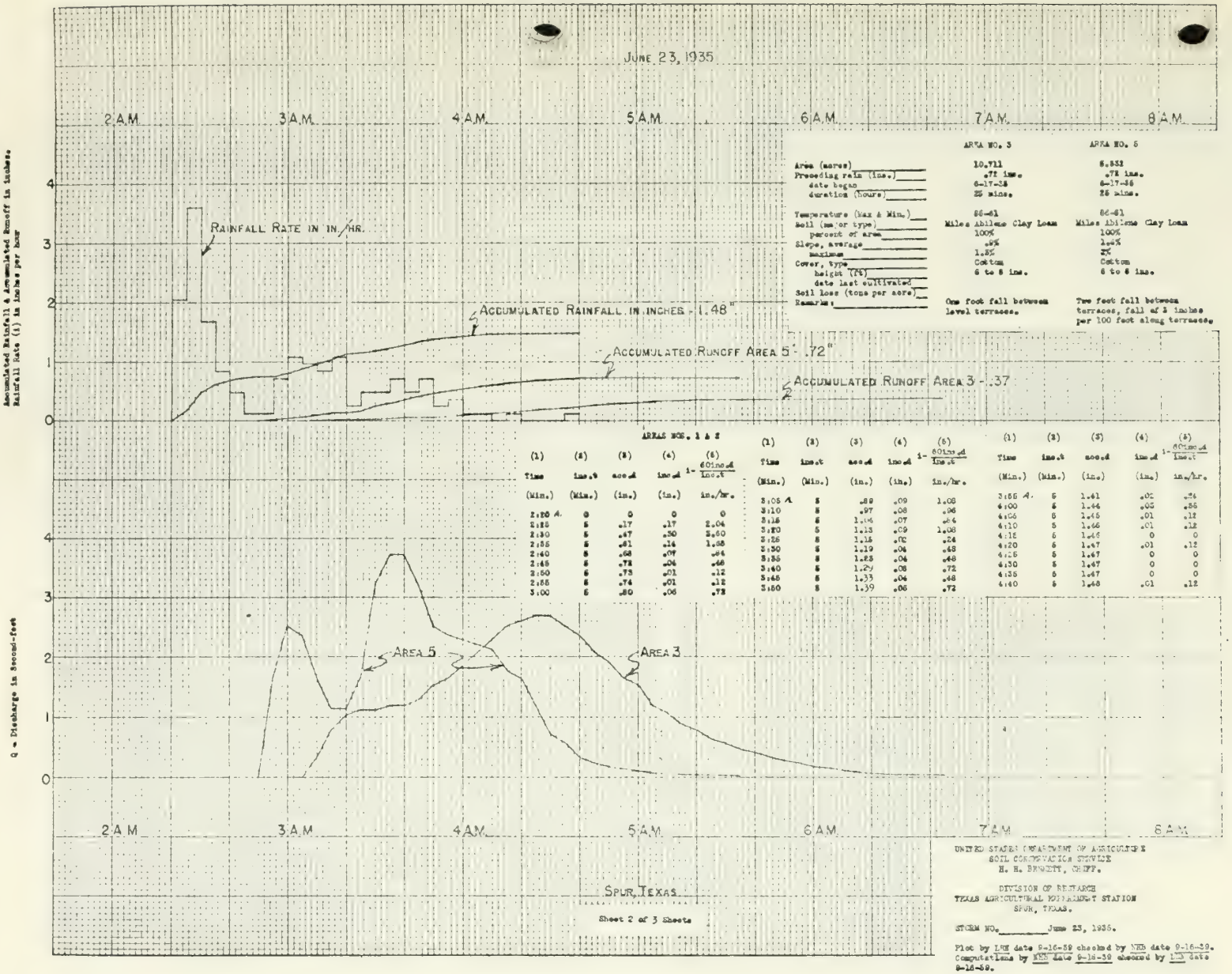
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 23, 1935.

Plot by LEH date 9-16-39 checked by NEB date 9-16-39.
Computations by NEB date 9-16-39 checked by LEH date 9-16-39

SPUR, TEXAS

Sheet 1 of 3 Sheets



	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.832
Preceding rain (ins.)	.7± ins.	.7± ins.
date began	6-17-35	6-17-35
duration (hours)	25 mins.	25 mins.
Temperature (Max & Min.)	86-61	86-61
Soil (name or type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.5%	1.5%
maximum	1.5%	2%
Cover, type	Cotton	Cotton
height (ft.)	6 to 8 ins.	6 to 8 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces.	Two foot fall between terraces, fall of 3 inches per 100 feet along terraces.

AREAS NOS. 1 & 2

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i = \frac{60 \text{ ins.d}}{\text{ins.t}}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
2:20 A.	0	0	0	0
2:25	5	.17	.17	2.04
2:30	5	.47	.30	3.60
2:35	5	.61	.14	1.68
2:40	5	.68	.07	.84
2:45	5	.72	.04	.48
2:50	5	.73	.01	.12
2:55	5	.74	.01	.12
3:00	5	.80	.06	.72
3:05 A.	5	.89	.09	1.08
3:10	5	.97	.08	.96
3:15	5	1.06	.07	.84
3:20	5	1.15	.09	1.08
3:25	5	1.15	.07	.84
3:30	5	1.19	.04	.48
3:35	5	1.23	.04	.48
3:40	5	1.29	.06	.72
3:45	5	1.33	.04	.48
3:50	5	1.39	.06	.72

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i = \frac{60 \text{ ins.d}}{\text{ins.t}}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
3:55 A.	5	1.41	.02	.24
4:00	5	1.44	.03	.36
4:05	5	1.45	.01	.12
4:10	5	1.46	.01	.12
4:15	5	1.46	0	0
4:20	5	1.47	.01	.12
4:25	5	1.47	0	0
4:30	5	1.47	0	0
4:35	5	1.47	0	0
4:40	5	1.48	.01	.12

SPUR, TEXAS

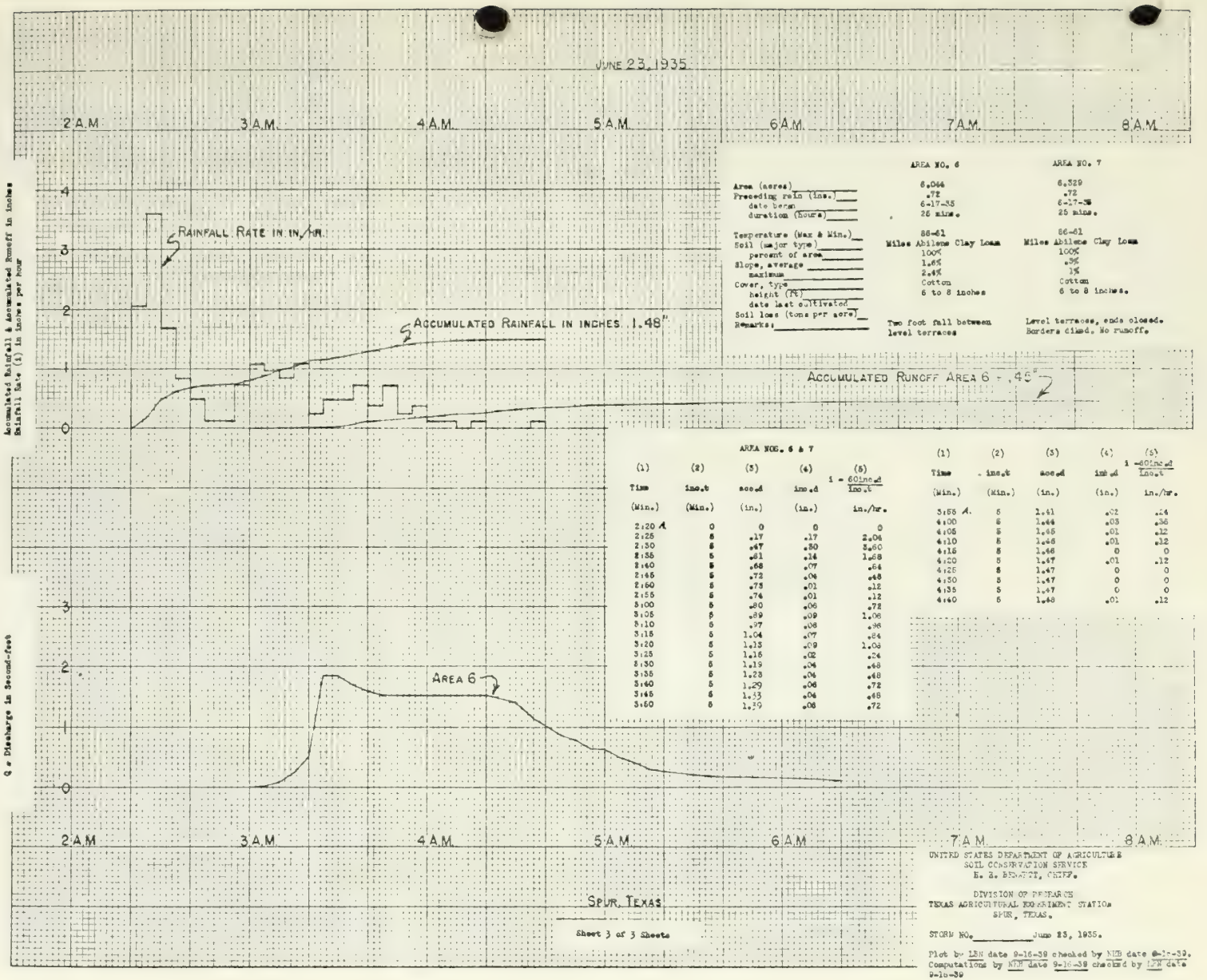
Sheet 2 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ June 23, 1935.

Plot by LRH date 9-16-39 checked by NEB date 9-16-39.
Computations by MMC date 9-18-39 checked by LRH date 9-18-39.



	AREA NO. 6	AREA NO. 7
Area (acres)	6.044	6.329
Preceding rain (ins.)	.72	.72
date began	6-17-35	6-17-35
duration (hours)	25 mins.	25 mins.
Temperature (Max & Min.)	86-61	86-61
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.5%
maximum	2.4%	1%
Cover, type	Cotton	Cotton
height (ft.)	6 to 8 inches	6 to 8 inches.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces	Level terraces, ends closed. Borders diked. No runoff.

AREA NOS. 6 & 7

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i = \frac{60 ins.d}{Ins.t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
2:20 A.	0	0	0	0
2:25	5	.17	.17	2.04
2:30	5	.47	.30	3.60
2:35	5	.61	.14	1.68
2:40	5	.68	.07	.84
2:45	5	.72	.04	.48
2:50	5	.73	.01	.12
2:55	5	.74	.01	.12
3:00	5	.80	.06	.72
3:05	5	.89	.09	1.08
3:10	5	.97	.08	.96
3:15	5	1.04	.07	.84
3:20	5	1.13	.09	1.08
3:25	5	1.16	.02	.24
3:30	5	1.19	.04	.48
3:35	5	1.23	.04	.48
3:40	5	1.29	.06	.72
3:45	5	1.33	.04	.48
3:50	5	1.39	.06	.72

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	(5) $i = \frac{60 ins.d}{Ins.t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
3:55 A.	5	1.41	.02	.24
4:00	5	1.44	.03	.36
4:05	5	1.45	.01	.12
4:10	5	1.46	.01	.12
4:15	5	1.46	0	0
4:20	5	1.47	.01	.12
4:25	5	1.47	0	0
4:30	5	1.47	0	0
4:35	5	1.47	0	0
4:40	5	1.48	.01	.12

SPUR, TEXAS

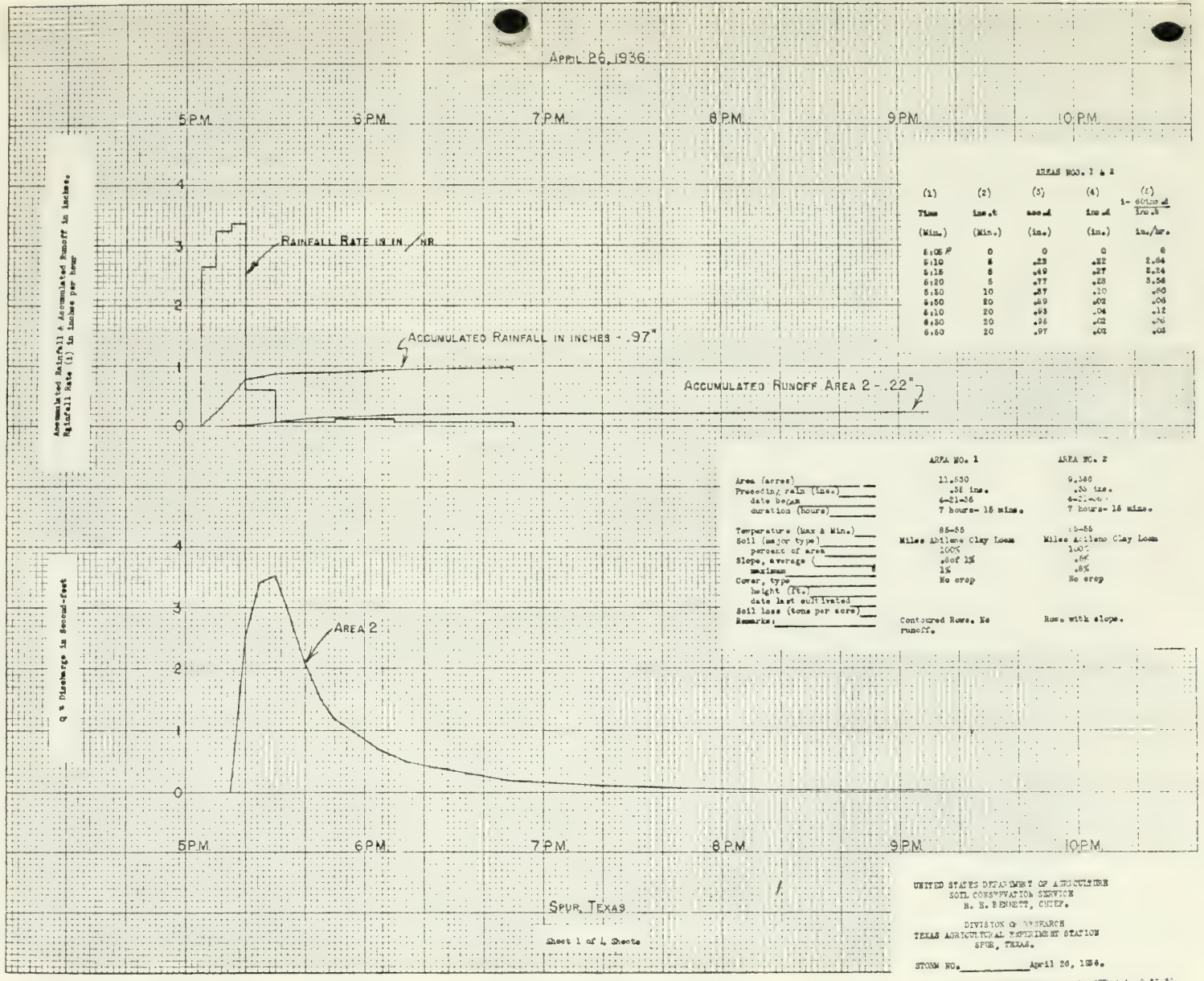
Sheet 3 of 3 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. June 23, 1935.

Plot by LBH date 9-16-38 checked by MEB date 9-17-38.
Computations by MNM date 9-16-38 checked by LBH date 9-16-38



AREAS NOS. 1 & 2

(1) Time	(2) Δt	(3) $\Sigma \Delta d$	(4) Δd	(5) $i = \frac{60 \Delta d}{\Delta t}$
(Min.)	(Min.)	(in.)	(in.)	in./hr.
5:05 P	0	0	0	0
5:10	5	.33	.33	3.84
5:15	5	.49	.27	3.24
5:20	5	.77	.28	3.36
5:30	10	.87	.10	.60
5:50	20	.89	.02	.06
6:10	20	.93	.04	.12
6:30	20	.95	.02	.06
6:50	20	.97	.02	.06

	AREA NO. 1	AREA NO. 2
Area (acres)	11.630	9.348
Preceding rain (ins.)	.56 ins.	.56 ins.
date began	4-21-36	4-21-36
duration (hours)	7 hours- 15 mins.	7 hours- 15 mins.
Temperature (max & Min.)	85-55	85-55
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1% of 1%	.6%
maximum	1%	.8%
Cover, type	No crop	No crop
height (Ft.)		
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows. No runoff.	Rows with slope.

SPUR, TEXAS

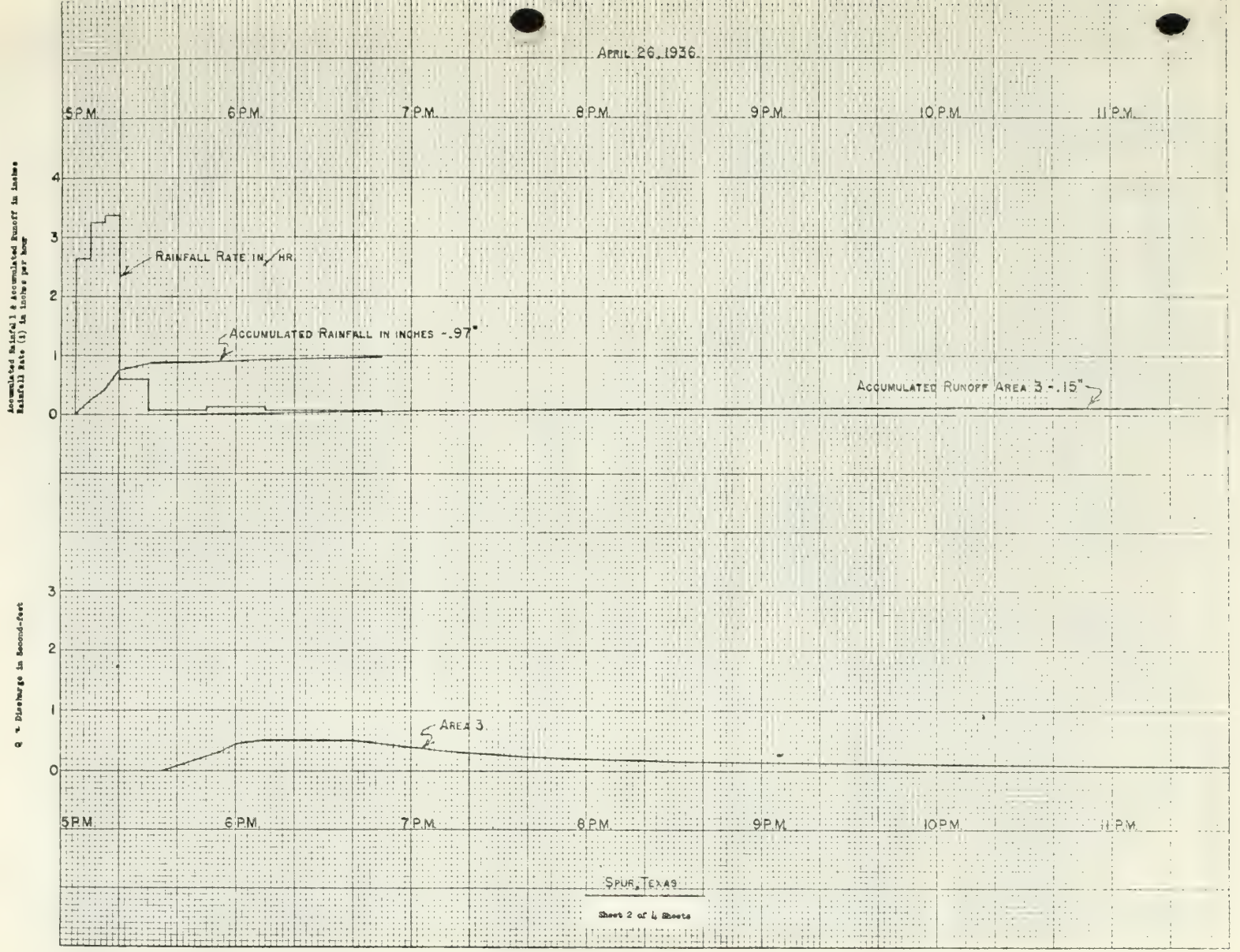
Sheet 1 of 4 Sheets

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

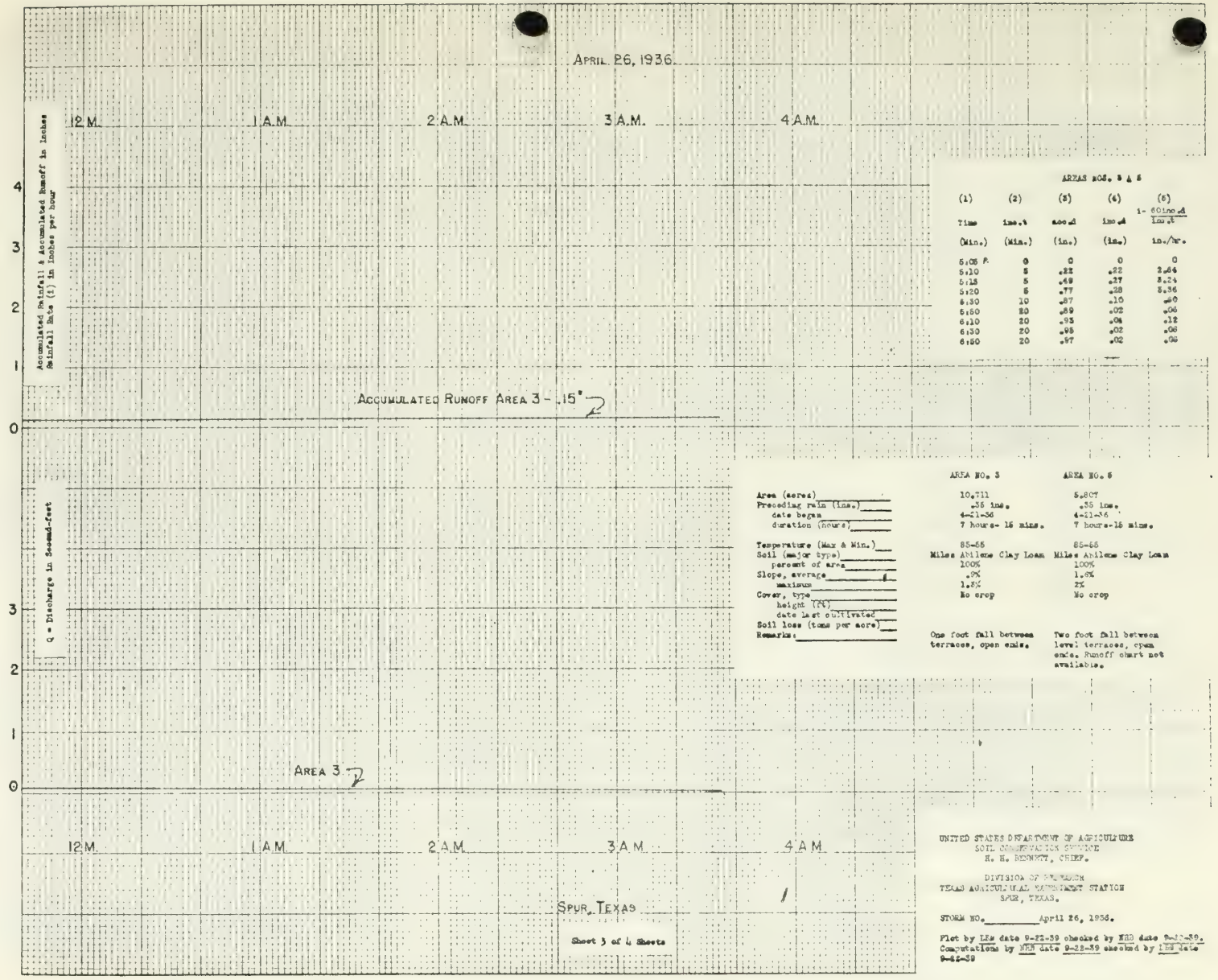
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ April 26, 1936.

Plot by LEK date 9-18-39 checked by MFC date 9-21-39.
Computations by MJB date 9-22-39 checked by LEK date 9-22-39


April 26, 1936.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
4
3
2
1
0
Rainfall Rate in/hr.
Accumulated Rainfall in Inches -.97"
Accumulated Runoff Area 3 -.15"
Q = Discharge in Second-feet
3
2
1
0
Area 3
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
Spur, Texas
Sheet 2 of 4 Sheets

April 26, 1936



AREAS NOS. 3 & 5

(1) Time (Min.)	(2) ins.Δt (Min.)	(3) acc.d (in.)	(4) ins.d (ins.)	(5) $\frac{i - .60 \text{ins.d}}{\text{ins.}\Delta t}$ in./hr.
5:05 P.	0	0	0	0
5:10	5	.22	.22	2.64
5:15	5	.49	.27	3.24
5:20	5	.77	.28	3.36
5:30	10	.87	.10	.60
5:50	20	.89	.02	.06
6:10	20	.93	.04	.12
6:30	20	.95	.02	.06
6:50	20	.97	.02	.06

Area (acres)
Preceding rain (ins.)
date began
duration (hours)
Temperature (Max & Min.)
Soil (major type)
percent of area
Slope, average
maximum
Cover, type
height (Ft.)
date last cultivated
Soil loss (tons per acre)
Remarks:

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.807
Preceding rain (ins.)	.35 ins.	.35 ins.
date began	4-21-36	4-11-36
duration (hours)	7 hours- 15 mins.	7 hours-15 mins.
Temperature (Max & Min.)	85-55	85-55
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.9%	1.6%
maximum	1.8%	2%
Cover, type	No crop	No crop
Remarks:	One foot fall between terraces, open ends.	Two foot fall between level terraces, open ends. Runoff chart not available.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF EROSION
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

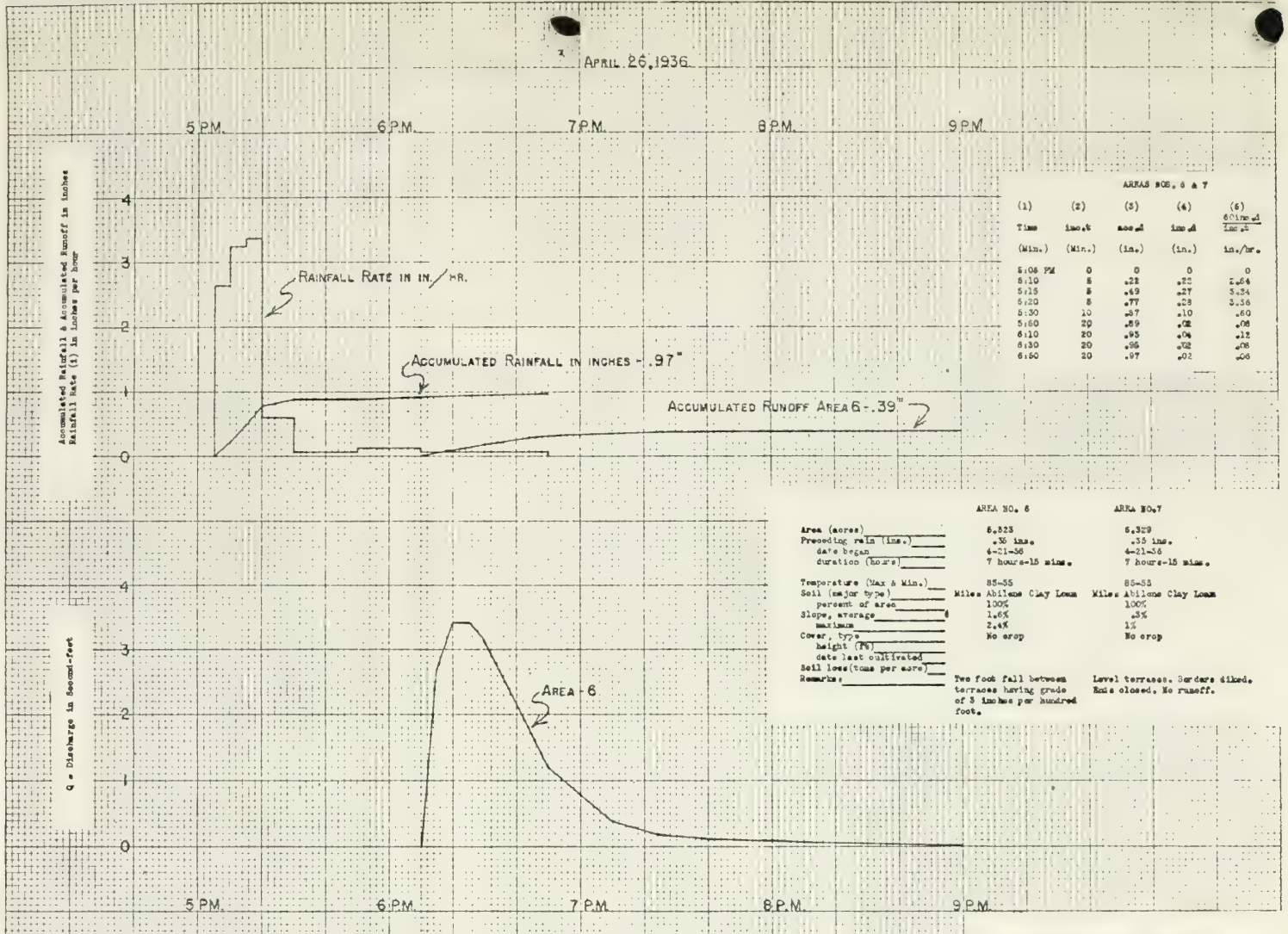
STORM NO. April 26, 1936.

Plot by LEm date 9-22-39 checked by MEB date 9-22-39.
Computations by MEB date 9-22-39 checked by LEM date 9-42-39

Spur, Texas

Sheet 3 of 4 Sheets

APRIL 26, 1936



AREAS NOS. 6 & 7

(1) Time (Min.)	(2) Inc. t (Min.)	(3) Acc. d (in.)	(4) Inc. d (in.)	(5) Observed Inc. i (in./hr.)
5:05 PM	0	0	0	0
5:10	5	.22	.22	2.64
5:15	5	.49	.27	3.24
5:20	5	.77	.28	3.36
5:30	10	.87	.10	.60
5:50	20	.89	.02	.06
6:10	20	.93	.04	.12
6:30	20	.95	.02	.06
6:50	20	.97	.02	.06

	AREA NO. 6	AREA NO. 7
Area (acres)	6.32%	6.32%
Preceding rain (ins.)	.36 ins.	.35 ins.
date began	4-21-36	4-21-36
duration (hours)	7 hours-15 mins.	7 hours-15 mins.
Temperature (Max & Min.)	85-55	85-55
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.8%
maximum	2.4%	1%
Cover, type	No crop	No crop
height (ft)		
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between terraces having grade of 3 inches per hundred foot.	Level terraces. Borders diked. Ends closed. No runoff.

SPUR, TEXAS.

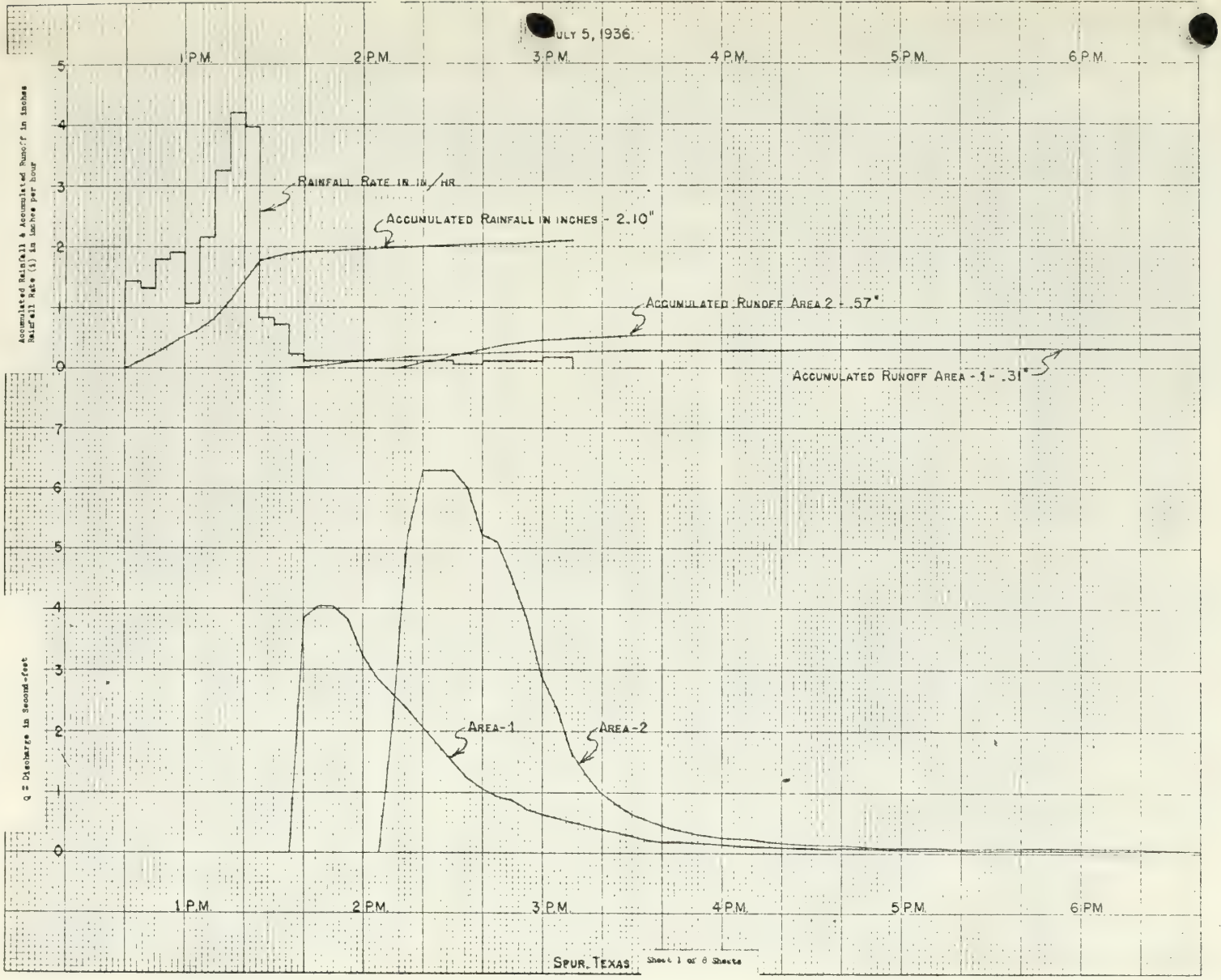
Sheet 4 of 4 Sheets

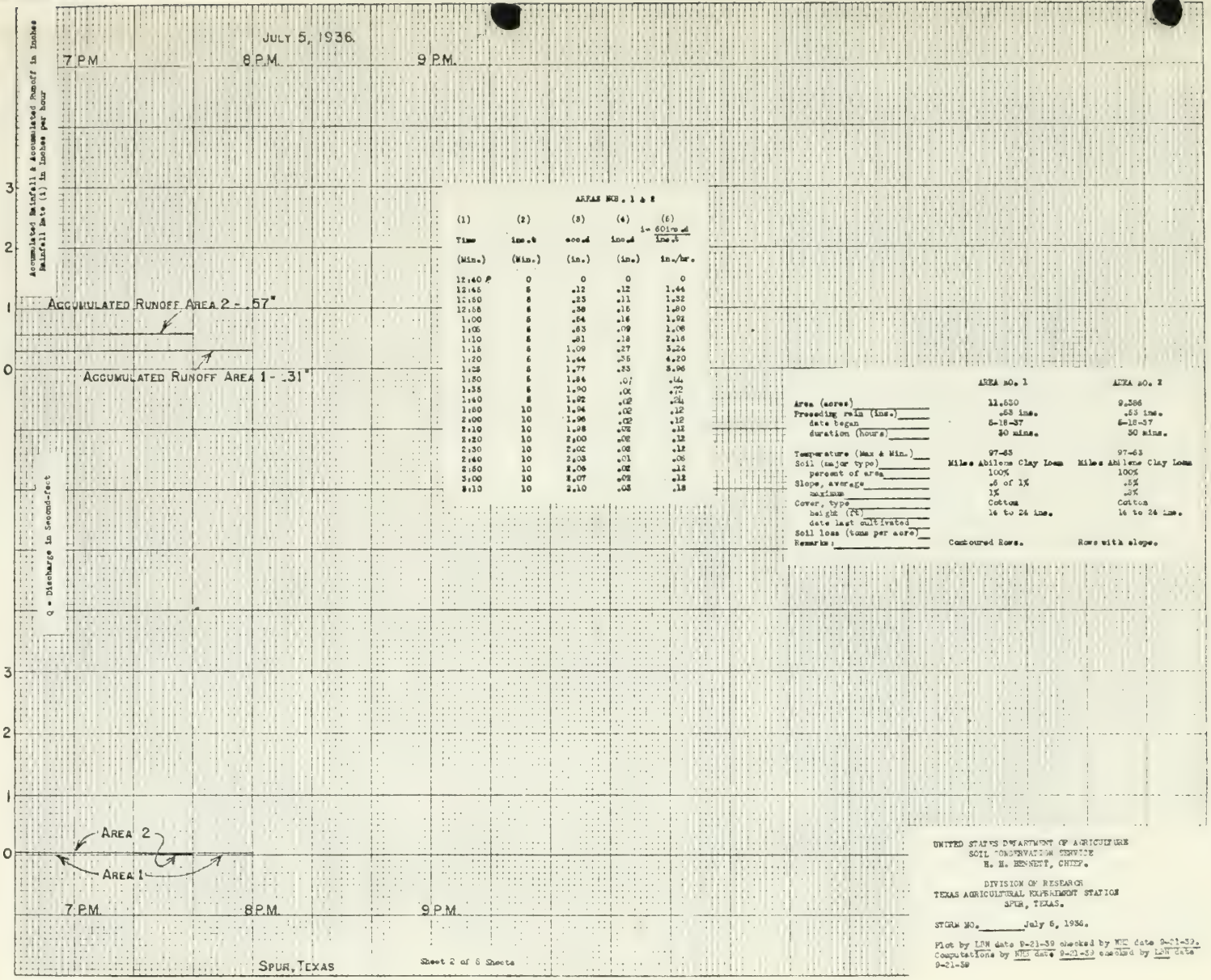
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ April 26, 1936.

Plot by LBH date 9-22-36 checked by NHB date 9-22-36
Computations by MTS date 9-22-36 checked by TH date 9-22-39


JULY 5, 1936.
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES - 2.10"
ACCUMULATED RUNOFF AREA 2 - .57"
ACCUMULATED RUNOFF AREA - 1 - .31"
Q = Discharge in Second-feet
AREA-1
AREA-2
SPUR, TEXAS.
Sheet 1 of 8 Sheets



AREAS NOS. 1 & 2

(1) Time	(2) Incs. t	(3) Accd.	(4) Incs.	(5) i = 60 Incs. / Incs. t
(Min.)	(Min.)	(in.)	(in.)	in./hr.
12:40 P	0	0	0	0
12:45	5	.12	.12	1.44
12:50	5	.25	.11	1.32
12:55	5	.38	.15	1.80
1:00	5	.54	.16	1.92
1:05	5	.63	.09	1.08
1:10	5	.81	.18	2.16
1:15	5	1.09	.27	3.24
1:20	5	1.44	.35	4.20
1:25	5	1.77	.33	3.96
1:30	5	1.84	.07	.84
1:35	5	1.90	.06	.72
1:40	5	1.92	.02	.24
1:50	10	1.94	.02	.12
2:00	10	1.96	.02	.12
2:10	10	1.98	.02	.12
2:20	10	2.00	.02	.12
2:30	10	2.02	.02	.12
2:40	10	2.03	.01	.06
2:50	10	2.06	.02	.12
3:00	10	2.07	.02	.12
3:10	10	2.10	.03	.18

	AREA NO. 1	AREA NO. 2
Area (acres)	11.530	9.586
Preceding rain (ins.)	.63 ins.	.63 ins.
date began	6-18-37	6-18-37
duration (hours)	30 mins.	30 mins.
Temperature (Max & Min.)	97-63	97-63
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6 of 1%	.5%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft)	14 to 24 ins.	14 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured Rows.	Rows with slope.

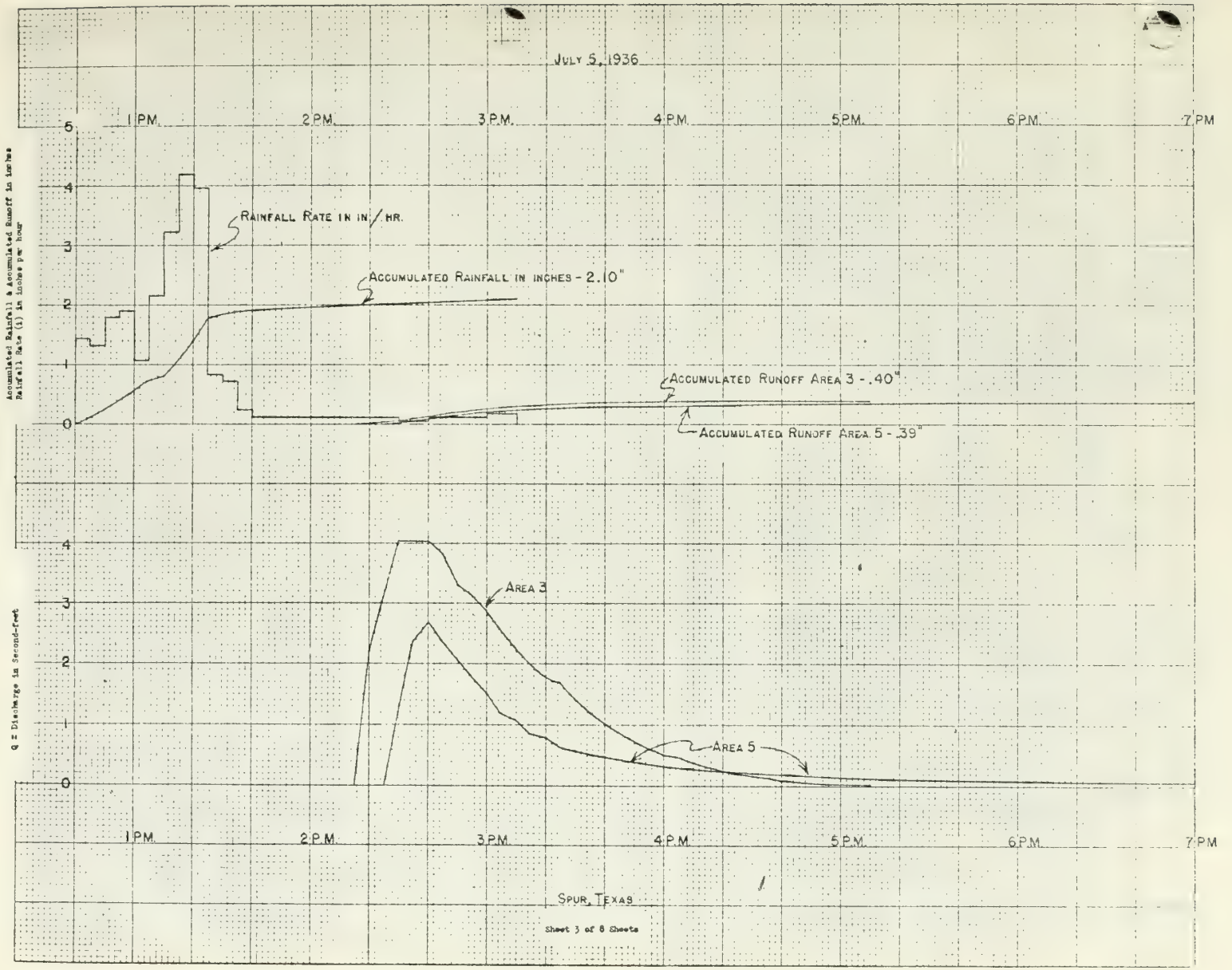
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

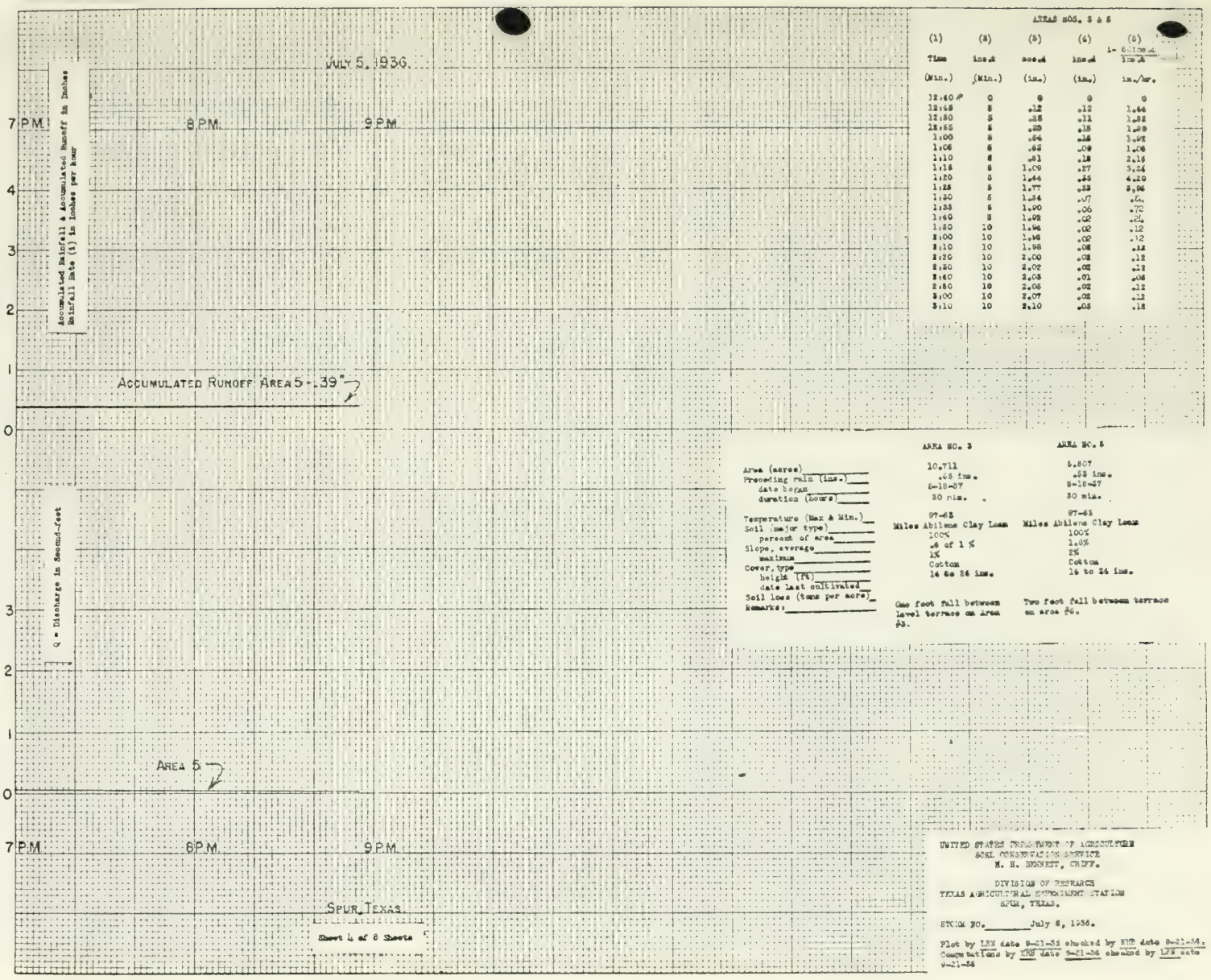
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. July 5, 1936.

Plot by LAW date 9-21-39 checked by MHC date 9-21-39.
Computations by MHC date 9-21-39 checked by LAW date 9-21-39

Sheet 2 of 6 Sheets


JULY 5, 1936
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES - 2.10"
ACCUMULATED RUNOFF AREA 3 - .40"
ACCUMULATED RUNOFF AREA 5 - .39"
Q = Discharge in Second-feet
AREA 3
AREA 5
SPUR, TEXAS
Sheet 3 of 8 Sheets



AREAS NOS. 3 & 5

(1) Time (Min.)	(2) Incs (Min.)	(3) Accum (in.)	(4) Incs (in.)	(5) 1- 6.1 Incs i (in./hr.)
12:40 P	0	0	0	0
12:45	5	.12	.12	1.44
12:50	5	.23	.11	1.32
12:55	5	.33	.10	1.20
1:00	5	.44	.11	1.32
1:05	5	.52	.08	1.08
1:10	5	.61	.09	1.08
1:15	5	1.09	.48	5.76
1:20	5	1.44	.35	4.20
1:25	5	1.77	.33	3.96
1:30	5	1.84	.07	.84
1:35	5	1.90	.06	.72
1:40	5	1.92	.02	.24
1:50	10	1.94	.02	.12
2:00	10	1.96	.02	.12
2:10	10	1.98	.02	.12
2:20	10	2.00	.02	.12
2:30	10	2.02	.02	.12
2:40	10	2.03	.01	.06
2:50	10	2.05	.02	.12
3:00	10	2.07	.02	.12
3:10	10	2.10	.03	.18

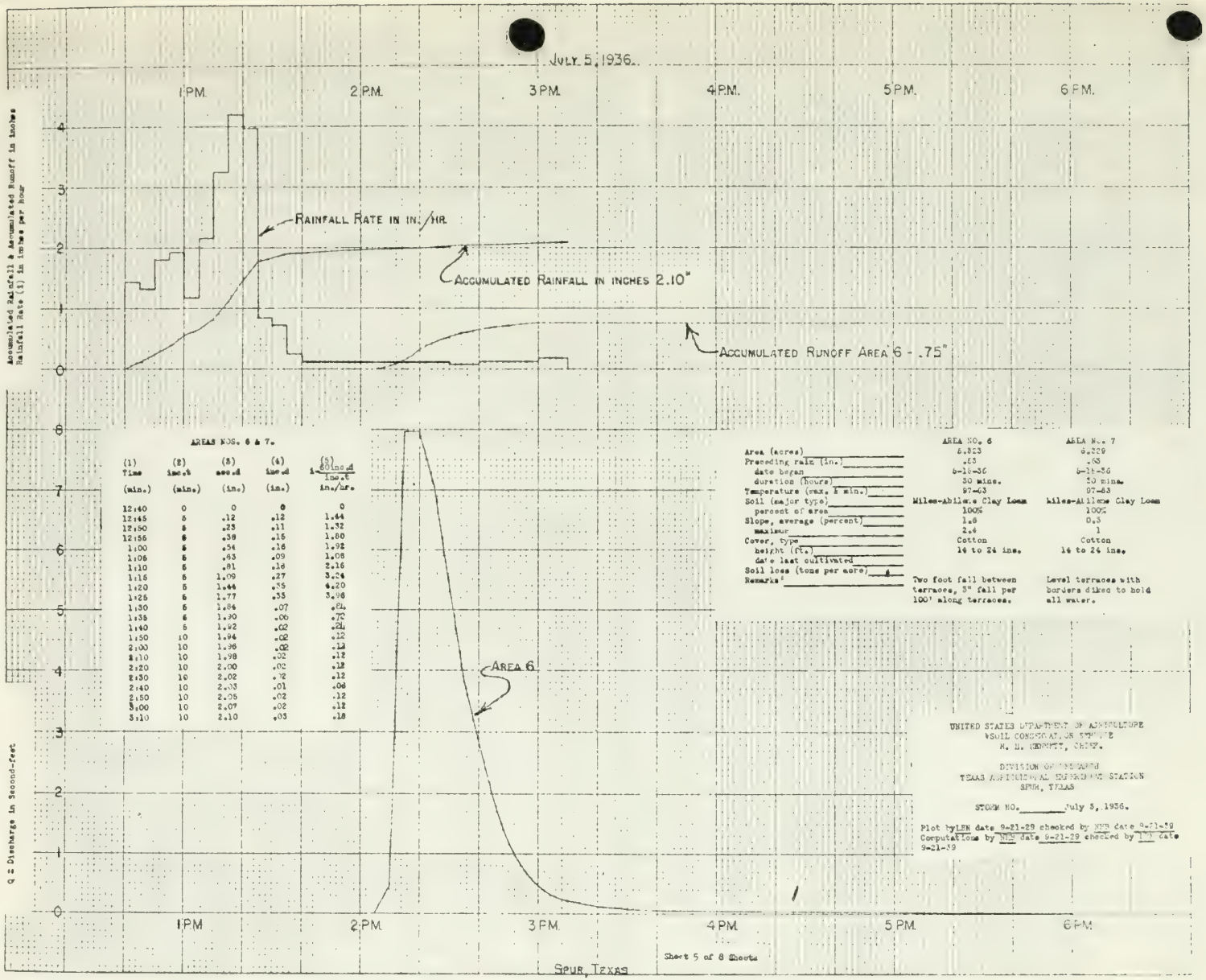
	AREA NO. 3	AREA NO. 5
Area (acres)	10.712	5.807
Preceding rain (ins.)	.65 ins.	.65 ins.
date began	6-18-37	6-18-37
duration (hours)	30 min.	30 min.
Temperature (Max & Min.)	97-65	97-65
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6 of 1 %	1.0%
maximum	1%	2%
Cover, type	Cotton	Cotton
height (Ft)	14 to 24 ins.	14 to 24 ins.
date Last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terrace on Area #3.	Two foot fall between terrace on area #5.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ July 5, 1936.

Plot by LEK date 9-21-36 checked by MHP date 9-21-36.
Computations by KNB date 9-21-36 checked by LFH date 9-21-36



AREAS NOS. 6 & 7.

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) i=60inc.d / inc.t
(min.)	(min.)	(in.)	(in.)	in./hr.
12:40	0	0	0	0
12:45	5	.12	.12	1.44
12:50	5	.23	.11	1.32
12:55	5	.38	.15	1.80
1:00	5	.54	.16	1.92
1:05	5	.63	.09	1.08
1:10	5	.81	.18	2.16
1:15	5	1.09	.27	3.24
1:20	5	1.44	.35	4.20
1:25	5	1.77	.33	3.96
1:30	5	1.84	.07	.84
1:35	5	1.90	.06	.72
1:40	5	1.92	.02	.24
1:50	10	1.94	.02	.12
2:00	10	1.96	.02	.12
2:10	10	1.98	.02	.12
2:20	10	2.00	.02	.12
2:30	10	2.02	.02	.12
2:40	10	2.03	.01	.06
2:50	10	2.05	.02	.12
3:00	10	2.07	.02	.12
3:10	10	2.10	.03	.18

	AREA NO. 6	AREA No. 7
Area (acres)	6.823	6.329
Preceding rain (in.)	.63	.63
date began	8-18-36	8-18-36
duration (hours)	30 mins.	30 mins.
Temperature (max. & min.)	97-63	97-63
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	1.8	0.3
maximum	2.4	1
Cover, type	Cotton	Cotton
height (ft.)	14 to 24 ins.	14 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks	Two foot fall between terraces, 3" fall per 100' along terraces.	Level terraces with borders diked to hold all water.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

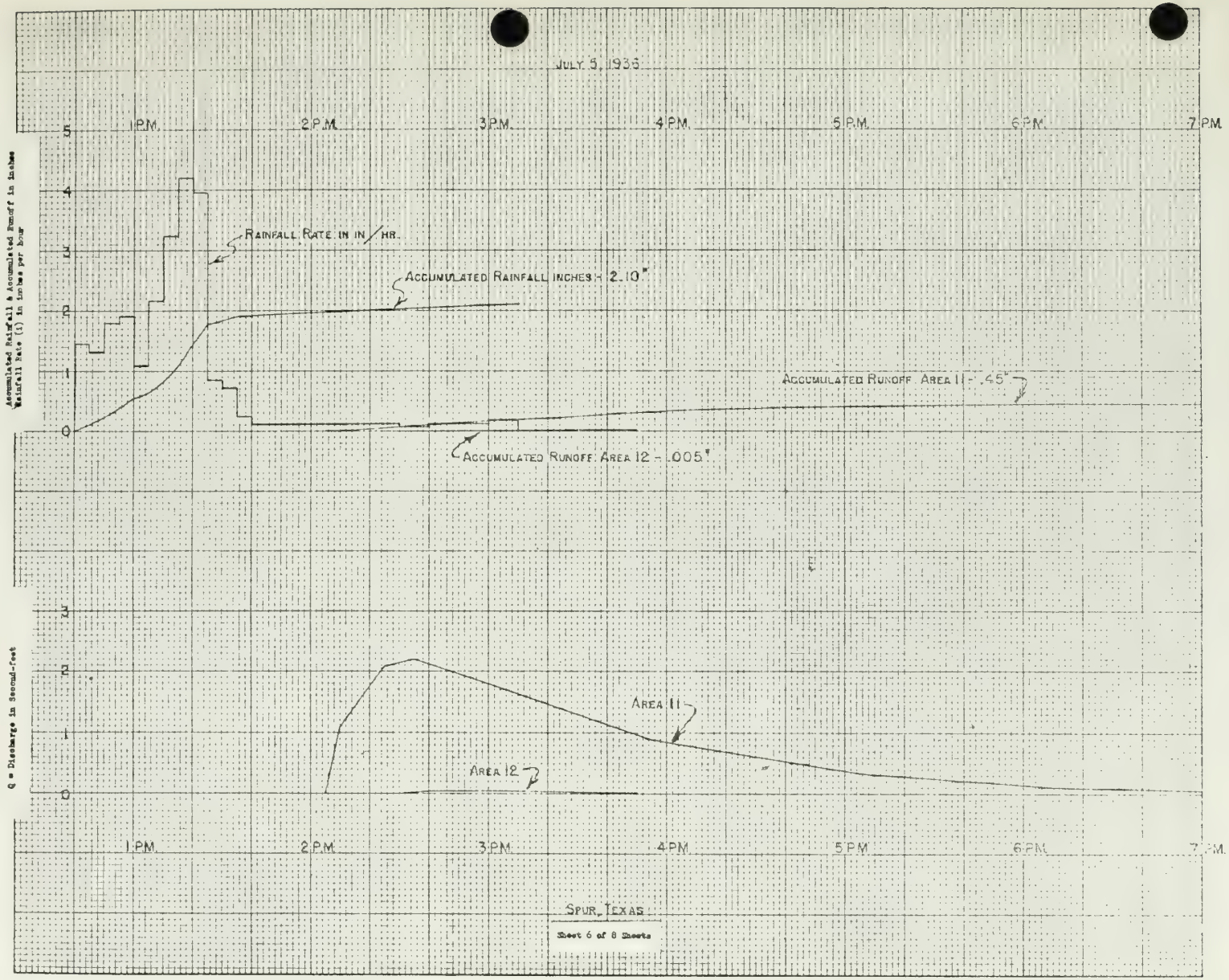
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

STORM NO. July 5, 1936.

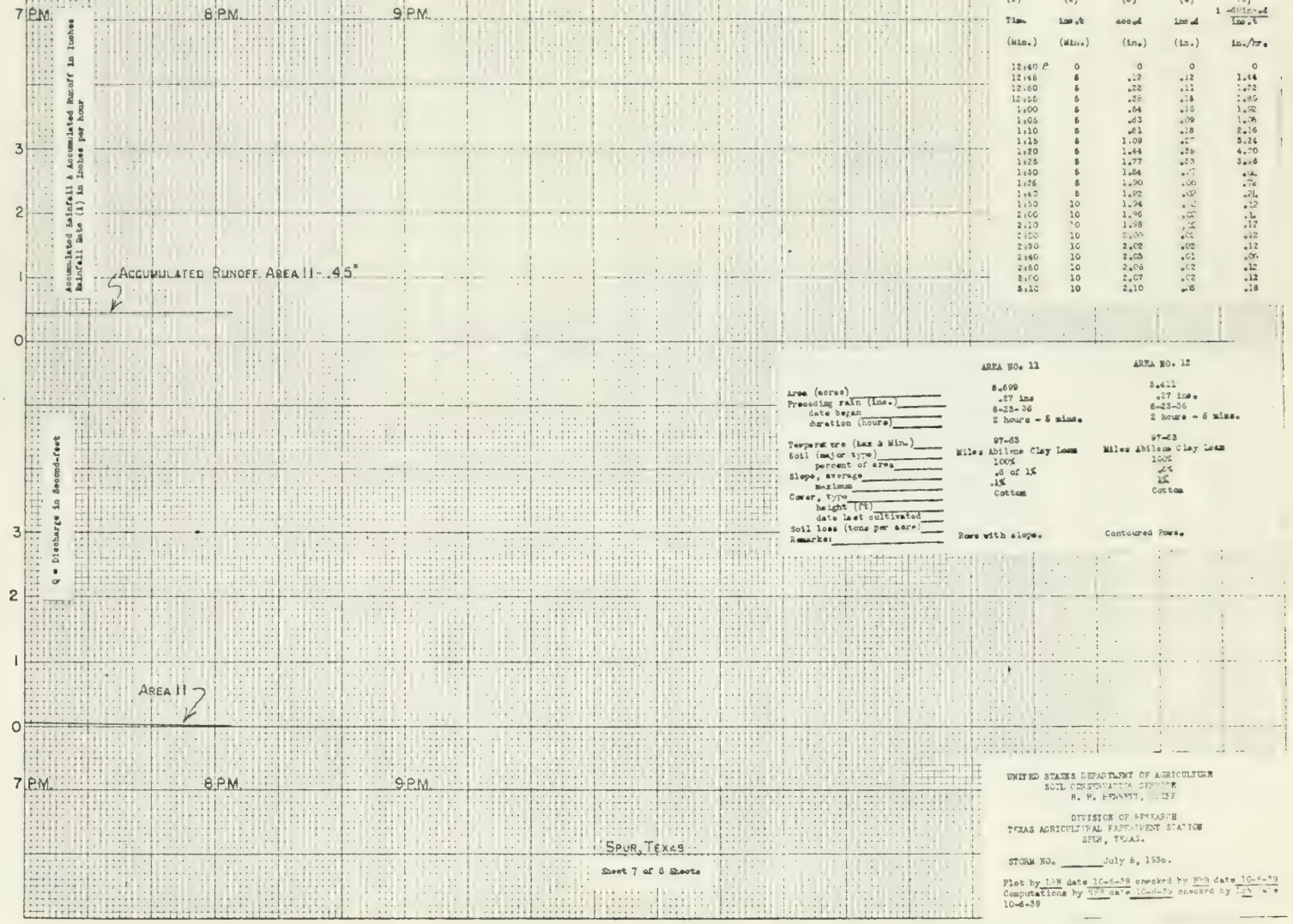
Plot by LEN date 9-21-39 checked by NEB date 9-21-39
Computations by NEB date 9-21-39 checked by LEN date 9-21-39

Sheet 5 of 8 Sheets

Spur, Texas


JULY 5, 1936
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL INCHES = 2.10"
ACCUMULATED RUNOFF AREA 11 = .45"
ACCUMULATED RUNOFF AREA 12 = .005"
Q = Discharge in Second-Feet
AREA 11
AREA 12
SPUR, TEXAS
Sheet 6 of 8 Sheets

JULY 5, 1936



AREAS NOS. 11 & 12

(1) Time (Min.)	(2) Inc. t (Min.)	(3) Acc. d (In.)	(4) Inc. d (In.)	(5) i = Obtained Inc. t / Inc. t (In./Hr.)
12:40 P	0	0	0	0
12:46	6	.12	.12	1.44
12:50	5	.22	.11	1.32
12:55	5	.32	.10	1.20
1:00	5	.64	.16	1.92
1:05	5	.83	.09	1.08
1:10	5	.81	.18	2.16
1:15	5	1.09	.27	3.24
1:20	5	1.44	.35	4.20
1:25	5	1.77	.33	3.96
1:30	5	1.84	.07	.84
1:36	6	1.90	.06	.72
1:40	5	1.92	.02	.24
1:50	10	1.94	.02	.12
2:00	10	1.96	.02	.12
2:10	10	1.98	.02	.12
2:20	10	2.00	.02	.12
2:30	10	2.02	.02	.12
2:40	10	2.03	.01	.06
2:50	10	2.06	.02	.12
3:00	10	2.07	.02	.12
3:10	10	2.10	.03	.18

	AREA NO. 11	AREA NO. 12
Area (acres)	8.699	8.411
Preceding rain (Ins.)	.27 Ins	.27 Ins.
date began	6-23-36	6-23-36
duration (Hours)	2 hours - 5 mins.	2 hours - 5 mins.
Temperature (Max & Min.)	97-63	97-63
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6 of 1%	.6%
Maximum	1%	1%
Cover, type	Cotton	Cotton
height (Ft)		
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows with slope.	Contoured Rows.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF

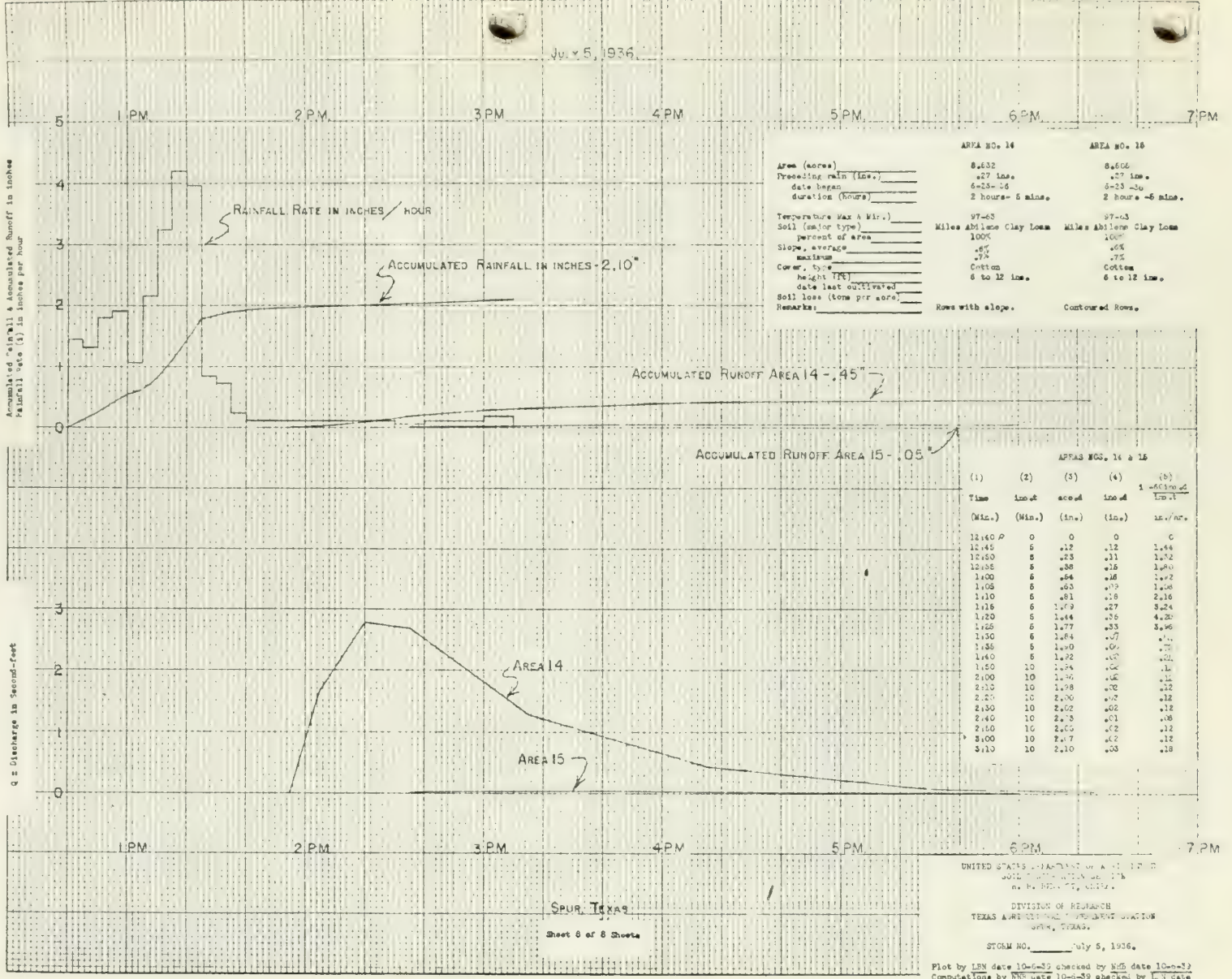
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. _____ July 5, 1936.

Plot by IRM date 10-6-39 checked by MVB date 10-6-39
Computations by MVB date 10-6-39 checked by IRM date 10-6-39

Spur, Texas

Sheet 7 of 8 Sheets



	AREA NO. 14	AREA NO. 15
Area (acres)	8.632	8.606
Preceding rain (Ins.)	.27 ins.	.27 ins.
date began	6-23-36	6-23-36
duration (hours)	2 hours- 5 mins.	2 hours -5 mins.
Temperature Max & Min.)	97-63	97-63
Soil (major type)	Miles Abilene Clay Loam	Miles Abilene Clay Loam
percent of area	100%	100%
Slope, average	.6%	.6%
maximum	.7%	.7%
Cover, type	Cotton	Cotton
height (ft)	6 to 12 ins.	6 to 12 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Rows with slope.	Contoured Rows.

AREAS NOS. 14 & 15

(1) Time	(2) Inc't	(3) acc'd	(4) Inc'd	(b) $1 - \frac{.461 \text{ inc'd}}{\text{Inc't}}$
(Min.)	(Min.)	(ins.)	(ins.)	in./hr.
12:40 P	0	0	0	0
12:45	5	.12	.12	1.44
12:50	5	.23	.11	1.52
12:55	5	.38	.15	1.40
1:00	5	.64	.26	1.02
1:05	5	.83	.19	1.38
1:10	5	.81	.18	2.16
1:15	5	1.09	.27	3.24
1:20	5	1.44	.36	4.20
1:25	5	1.77	.33	3.96
1:30	5	1.84	.07	.44
1:35	5	1.90	.06	.36
1:40	5	1.92	.02	.12
1:50	10	1.94	.02	.12
2:00	10	1.96	.02	.12
2:10	10	1.98	.02	.12
2:20	10	2.00	.02	.12
2:30	10	2.02	.02	.12
2:40	10	2.03	.01	.08
2:50	10	2.06	.02	.12
3:00	10	2.07	.02	.12
3:10	10	2.10	.03	.18

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

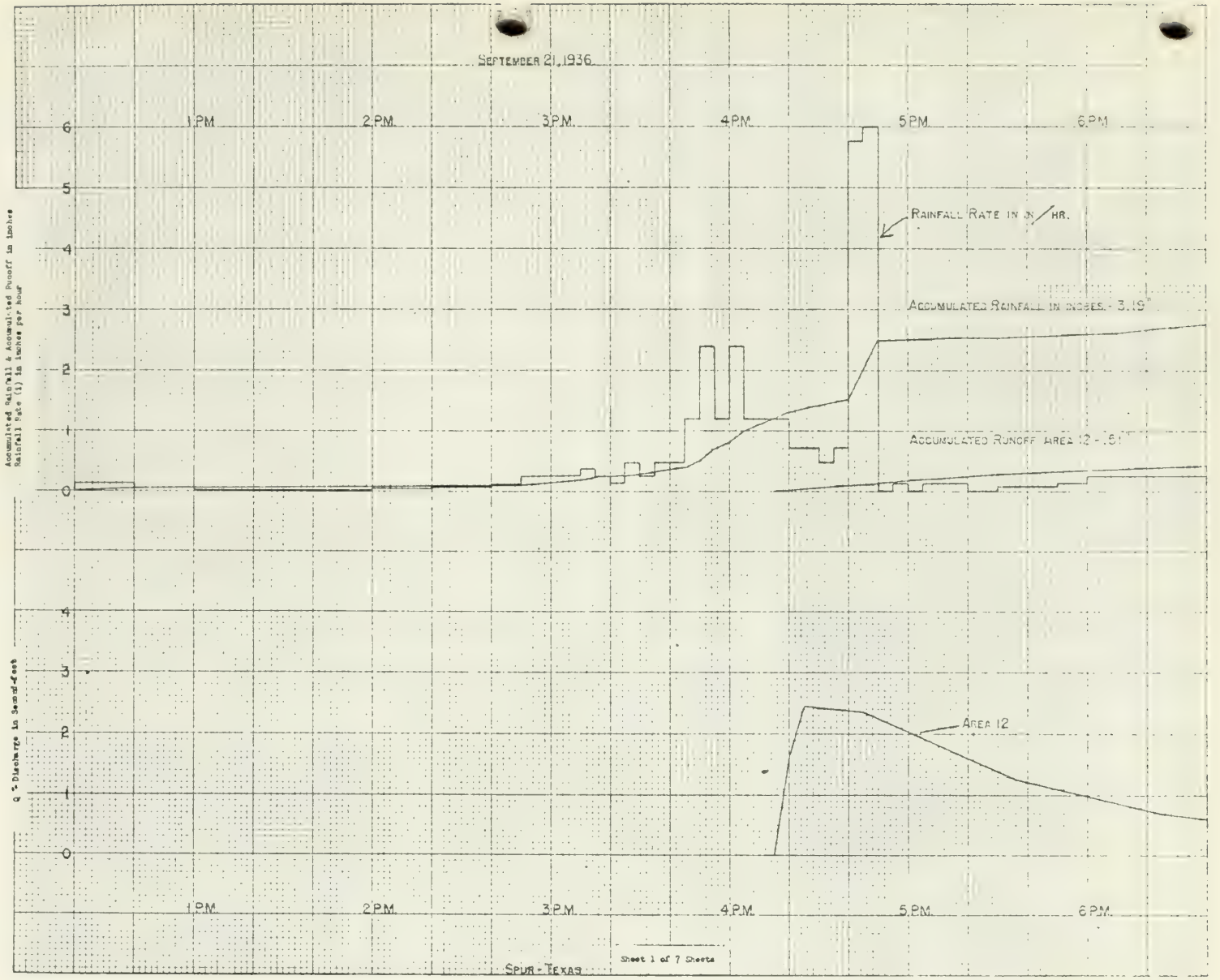
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
COLLEGE STATION, TEXAS.

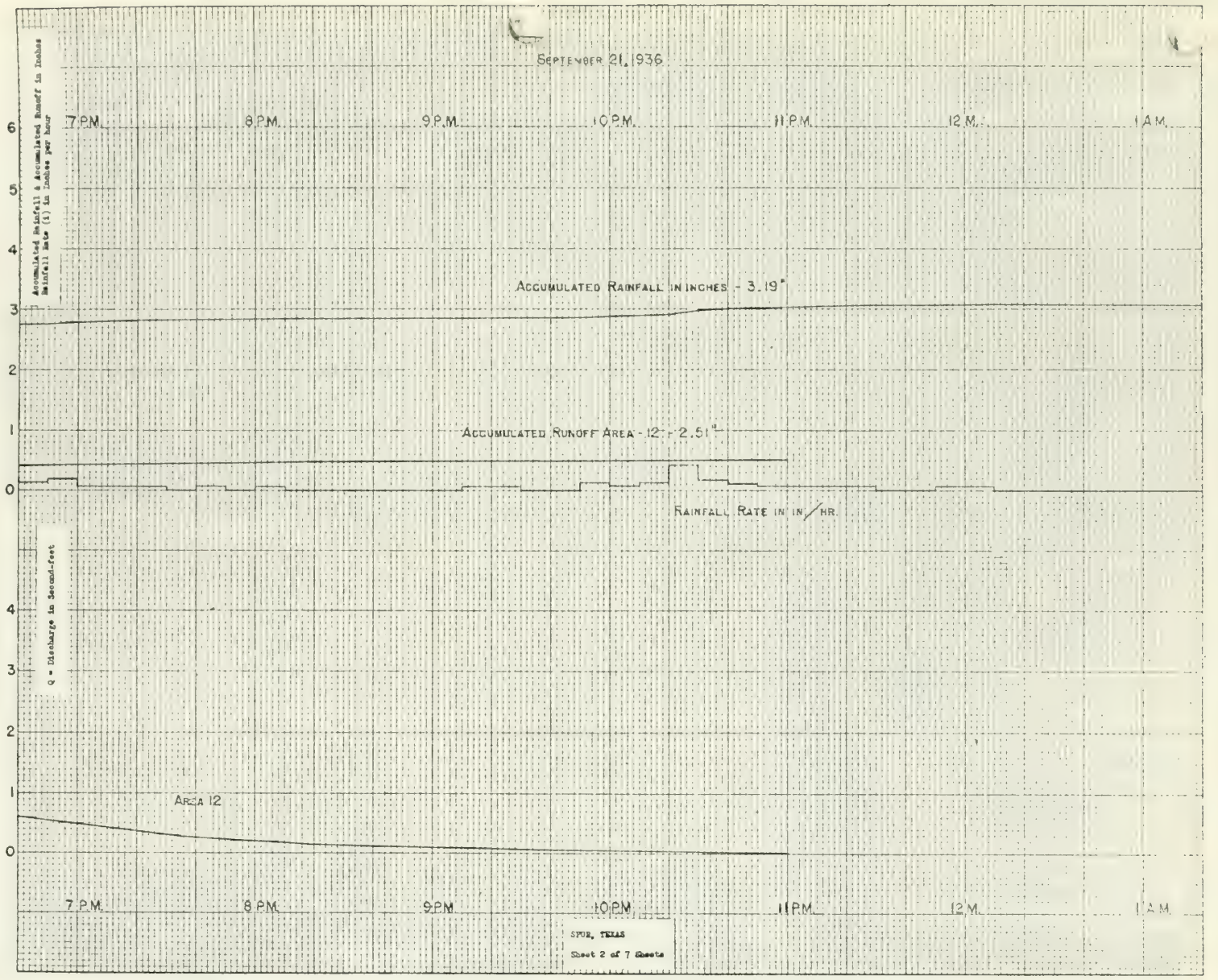
STORM NO. July 5, 1936.

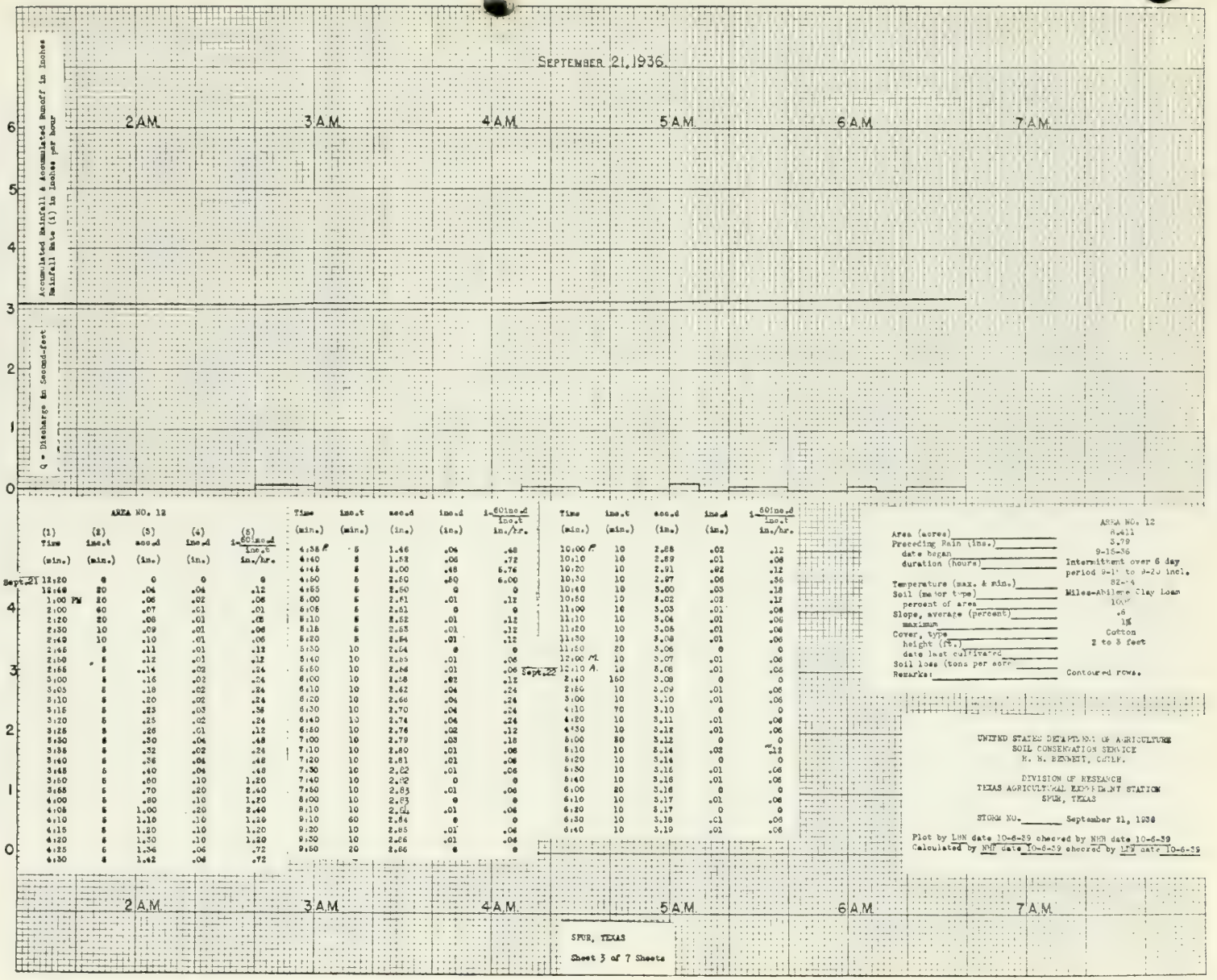
Plot by LBN date 10-6-39 checked by MFB date 10-6-39
Computations by NBP date 10-6-39 checked by LBN date 10-6-39

SPUR, TEXAS

Sheet 8 of 8 Sheets


SEPTEMBER 21, 1936
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES - 3.19"
ACCUMULATED RUNOFF AREA 12 - 1.61"
Q = Discharge in Second-feet
AREA 12
SPUR - TEXAS
Sheet 1 of 7 Sheets


September 21, 1936
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 M.
1 A.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Accumulated Rainfall in Inches - 3.19"
Accumulated Runoff Area - 12 - 2.51"
Rainfall Rate in in./hr.
Q = Discharge in Second-feet
Area 12
6
5
4
3
2
1
0
4
3
2
1
0
Spur, Texas
Sheet 2 of 7 Sheets



AREA NO. 12

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (ins.)	(4) inc.d (ins.)	(5) $i=\frac{60 inc.d}{inc.t}$ in./hr.
Sept.21 12:20	0	0	0	0
12:48	20	.04	.04	.12
1:00 PM	20	.06	.02	.06
2:00	40	.07	.01	.01
2:20	20	.08	.01	.03
2:30	10	.09	.01	.06
2:40	10	.10	.01	.06
2:45	5	.11	.01	.12
2:50	5	.12	.01	.12
2:55	5	.14	.02	.24
3:00	5	.16	.02	.24
3:05	5	.18	.02	.24
3:10	5	.20	.02	.24
3:15	5	.23	.03	.36
3:20	5	.25	.02	.24
3:25	5	.26	.01	.12
3:30	5	.30	.04	.48
3:35	5	.32	.02	.24
3:40	5	.36	.04	.48
3:45	5	.40	.04	.48
3:50	5	.60	.10	1.20
3:55	5	.70	.20	2.40
4:00	5	.80	.10	1.20
4:05	5	1.00	.20	2.40
4:10	5	1.10	.10	1.20
4:15	5	1.20	.10	1.20
4:20	5	1.30	.10	1.20
4:25	5	1.36	.06	.72
4:30	5	1.42	.06	.72
4:38 P	5	1.46	.04	.48
4:40	5	1.52	.06	.72
4:45	5	1.00	.48	5.76
4:50	5	1.50	.50	6.00
4:55	5	1.50	0	0
5:00	5	1.51	.01	.12
5:05	5	1.51	0	0
5:10	5	1.52	.01	.12
5:15	5	1.53	.01	.12
5:20	5	1.54	.01	.12
5:30	10	1.54	0	0
5:40	10	1.55	.01	.06
5:50	10	1.56	.01	.06
6:00	10	1.58	.02	.12
6:10	10	1.62	.04	.24
6:20	10	1.66	.04	.24
6:30	10	1.70	.04	.24
6:40	10	1.74	.04	.24
6:50	10	1.76	.02	.12
7:00	10	1.79	.03	.18
7:10	10	1.80	.01	.06
7:20	10	1.81	.01	.06
7:30	10	2.02	.01	.06
7:40	10	2.02	0	0
7:50	10	2.83	.01	.06
8:00	10	2.83	0	0
8:10	10	2.84	.01	.06
9:10	60	2.84	0	0
9:20	10	2.85	.01	.06
9:30	10	2.86	.01	.06
9:50	20	2.86	0	0
10:00 P	10	2.88	.02	.12
10:10	10	2.89	.01	.06
10:20	10	2.91	.02	.12
10:30	10	2.97	.06	.36
10:40	10	3.00	.03	.18
10:50	10	3.02	.02	.12
11:00	10	3.03	.01	.06
11:10	10	3.04	.01	.06
11:20	10	3.05	.01	.06
11:30	10	3.06	.01	.06
11:50	20	3.06	0	0
12:00 M.	10	3.07	.01	.06
12:10 A.	10	3.08	.01	.06
Sept.22 2:40	160	3.08	0	0
2:50	10	3.09	.01	.06
3:00	10	3.10	.01	.06
4:10	70	3.10	0	0
4:20	10	3.11	.01	.06
4:30	10	3.12	.01	.06
5:00	30	3.12	0	0
5:10	10	3.14	.02	.12
5:20	10	3.14	0	0
5:30	10	3.15	.01	.06
5:40	10	3.16	.01	.06
6:00	20	3.16	0	0
6:10	10	3.17	.01	.06
6:20	10	3.17	0	0
6:30	10	3.18	.01	.06
6:40	10	3.19	.01	.06

AREA NO. 12

Area (acres) 8.411
Preceding Rain (ins.) 3.79
date began 9-18-36
duration (hours) Intermittent over 6 day period 9-1" to 9-20 incl.
Temperature (max. & min.) 82-44
Soil (major type) Miles-Abilene Clay Loam
percent of area 100
Slope, average (percent) .6
maximum 1%
Cover, type Cotton
height (ft.) 2 to 3 feet
date last cultivated
Soil loss (tons per acre)
Remarks: Contoured rows.

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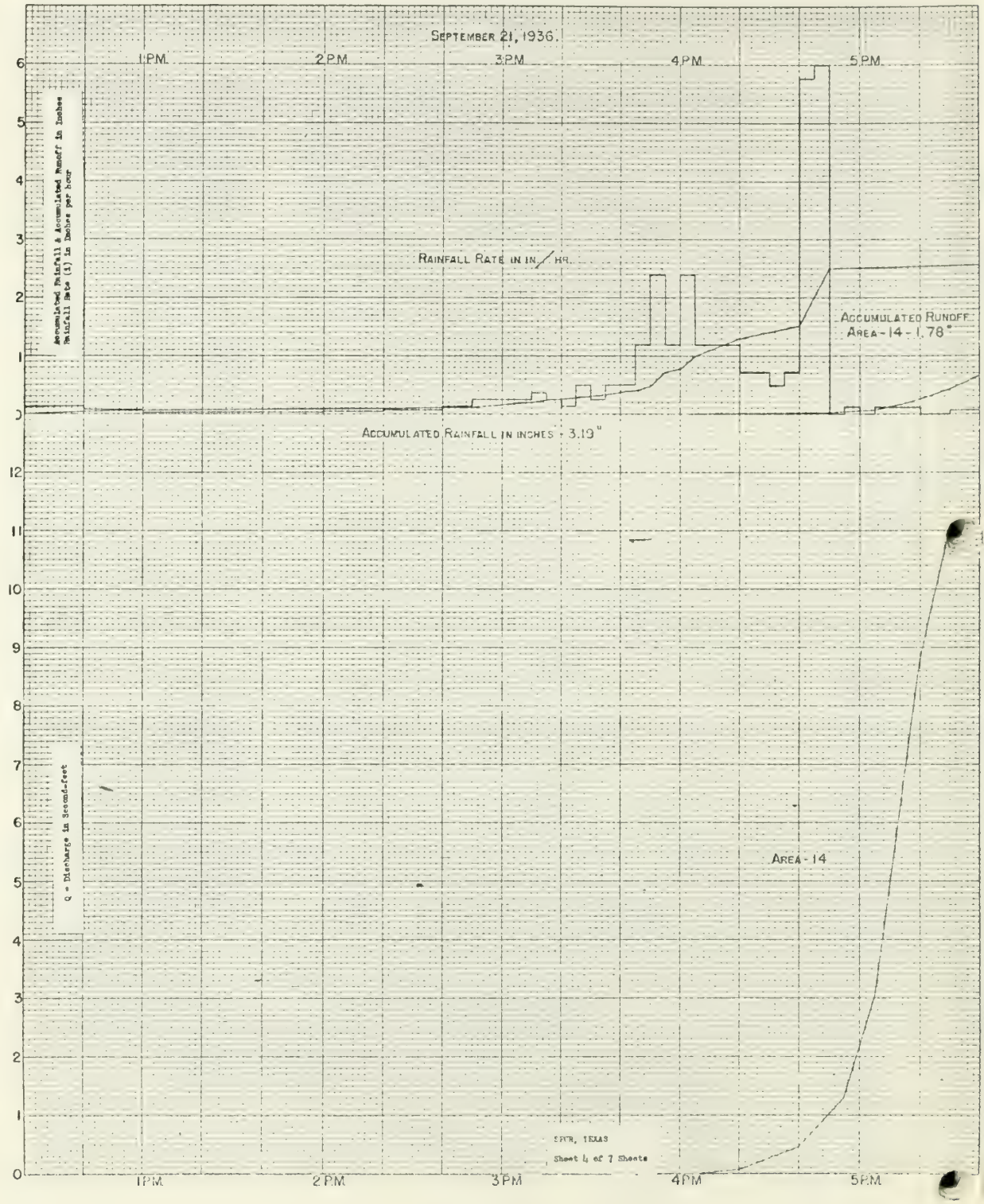
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SPUR, TEXAS

STORM NO. September 21, 1936

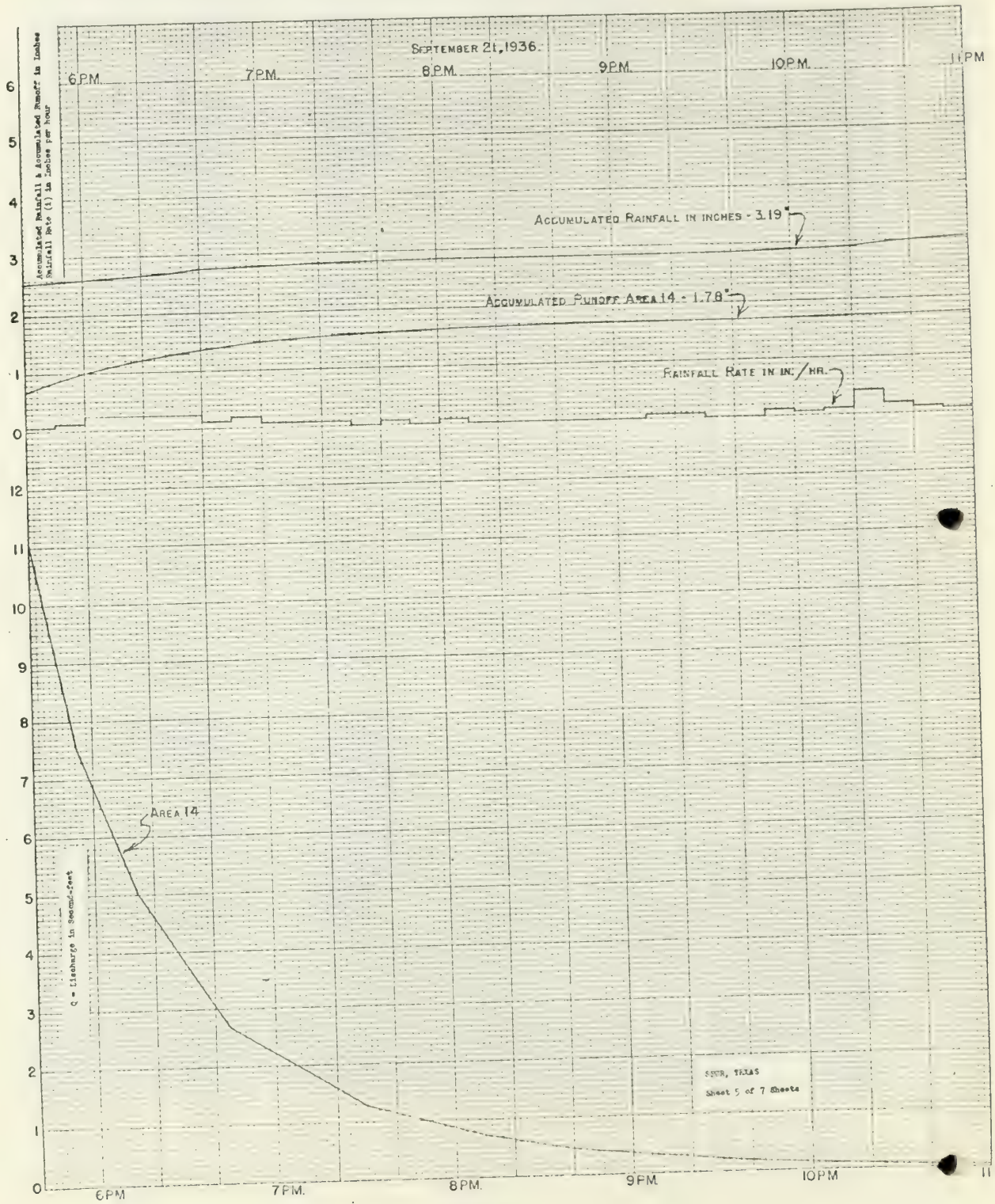
Plot by LHN date 10-6-39 checked by NHB date 10-6-39
Calculated by NHB date 10-6-39 checked by LFB date 10-6-39

SPUR, TEXAS

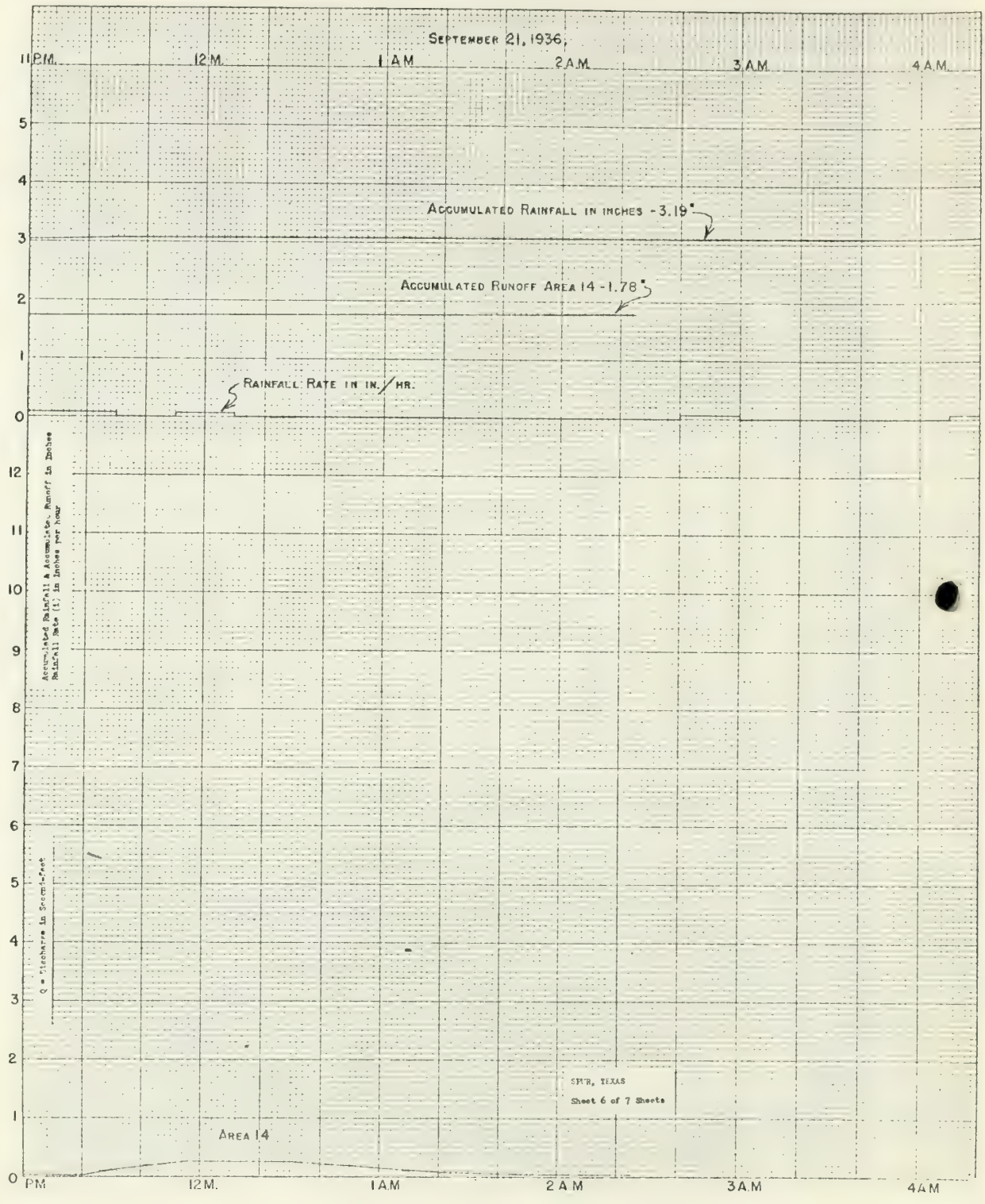
Sheet 3 of 7 Sheets


SEPTEMBER 21, 1936.
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RUNOFF
AREA - 14 - 1.78"
ACCUMULATED RAINFALL IN INCHES - 3.19"
Q = Discharge in Second-Feet
AREA - 14
SPUR, TEXAS
Sheet 4 of 7 Sheets
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.

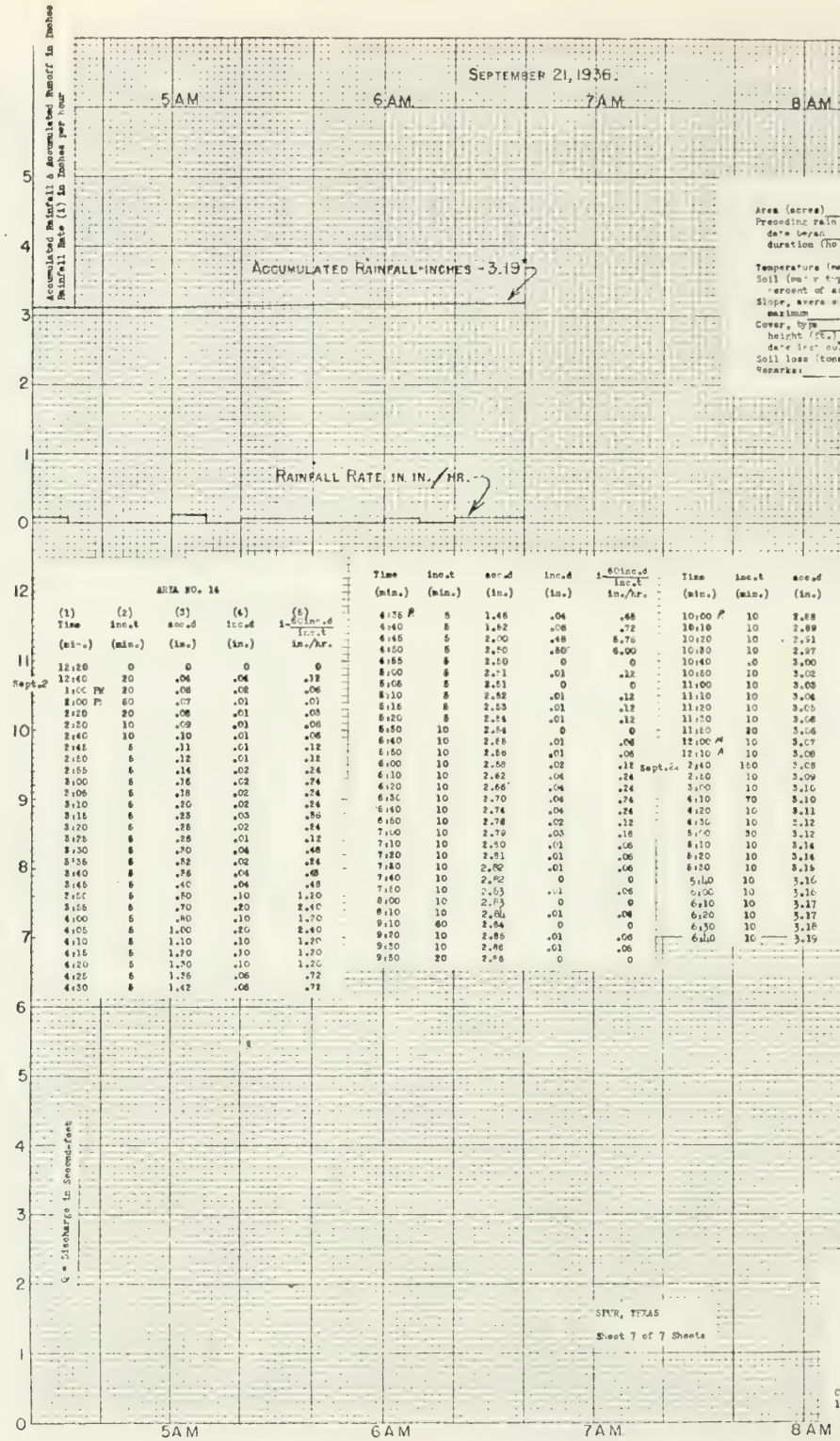
SPUR, TEXAS.


Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
SEPTEMBER 21, 1936.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 PM
ACCUMULATED RAINFALL IN INCHES - 3.19"
ACCUMULATED RUNOFF AREA 14 - 1.78"
RAINFALL RATE IN IN./HR.
AREA 14
Q = Discharge in Second-Feet
SPUR, TEXAS
Sheet 5 of 7 Sheets
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 PM

SPUR TEXAS


SEPTEMBER 21, 1936,
11 P.M.
12 M.
1 A.M.
2 A.M.
3 A.M.
4 A.M.
ACCUMULATED RAINFALL IN INCHES - 3.19"
ACCUMULATED RUNOFF AREA 14 - 1.78"
RAINFALL RATE IN IN./HR.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Q = Discharge in Second-Feet
SPUR, TEXAS
Sheet 6 of 7 Sheets
AREA 14
PM
12M.
1A.M.
2 A.M.
3A.M.
4AM

SPUR TEXAS



	AREA No. 14
Area (acres)	8.532
Preceding rain (ins.)	3.79
date began	9-17-36
duration (hours)	Intermittent over 8 day period 9-13 to 9-20 incl.
Temperature (max. & min.)	82-64
Soil (name & type)	Miles-Abilene Clay Loam
percent of area	100
Slope, average (percent)	.6
maximum	.9
Cover, type	Cotton
height (ft.)	2 to 3 feet
date last cultivated	
Soil loss (tons per acre)	
Remarks:	Rows with slope.

AREA NO. 14

(1) Time	(2) inc.t	(3) acc.d	(4) inc.d	(5) $i=\frac{60 inc.d}{inc.t}$
(min.)	(min.)	(ins.)	(ins.)	ins./hr.
12:20	0	0	0	0
12:40	20	.04	.04	.12
1:00 PM	20	.08	.02	.06
2:00 PM	60	.07	.01	.01
2:20	20	.08	.01	.03
2:30	10	.09	.01	.06
2:40	10	.10	.01	.06
2:45	5	.11	.01	.12
2:50	5	.12	.01	.12
2:55	5	.14	.02	.24
3:00	5	.16	.02	.24
3:05	5	.18	.02	.24
3:10	5	.20	.02	.24
3:15	5	.23	.03	.36
3:20	5	.25	.02	.24
3:25	5	.26	.01	.12
3:30	5	.30	.04	.48
3:35	5	.32	.02	.24
3:40	5	.36	.04	.48
3:45	5	.40	.04	.48
3:50	5	.50	.10	1.20
3:55	5	.70	.20	2.40
4:00	5	.80	.10	1.20
4:05	5	1.00	.20	2.40
4:10	5	1.10	.10	1.20
4:15	5	1.20	.10	1.20
4:20	5	1.30	.10	1.20
4:25	5	1.36	.06	.72
4:30	5	1.42	.06	.72
4:35 P.M.	5	1.48	.06	.72
4:40	5	1.52	.04	.48
4:45	5	2.00	.48	5.76
4:50	5	2.50	.50	6.00
4:55	5	2.50	0	0
5:00	5	2.51	.01	.12
5:05	5	2.51	0	0
5:10	5	2.52	.01	.12
5:15	5	2.53	.01	.12
5:20	5	2.54	.01	.12
5:50	10	2.54	0	0
6:40	10	2.55	.01	.06
6:50	10	2.56	.01	.06
6:00	10	2.58	.02	.12
6:10	10	2.62	.04	.24
6:20	10	2.66	.04	.24
6:30	10	2.70	.04	.24
6:40	10	2.74	.04	.24
6:50	10	2.76	.02	.12
7:00	10	2.79	.03	.18
7:10	10	2.80	.01	.06
7:20	10	2.81	.01	.06
7:30	10	2.82	.01	.06
7:40	10	2.82	0	0
7:50	10	2.83	.01	.06
8:00	10	2.83	0	0
8:10	10	2.84	.01	.06
9:10	60	2.84	0	0
9:20	10	2.85	.01	.06
9:30	10	2.86	.01	.06
9:50	20	2.86	0	0
10:00 P.M.	10	2.88	.02	.12
10:10	10	2.89	.01	.06
10:20	10	2.91	.02	.12
10:30	10	2.97	.06	.36
10:40	10	3.00	.03	.18
10:50	10	3.02	.02	.12
11:00	10	3.03	.01	.06
11:10	10	3.04	.01	.06
11:20	10	3.05	.01	.06
11:30	10	3.06	.01	.06
11:50	20	3.06	0	0
12:00 A.M.	10	3.07	.01	.06
12:10 A.M.	10	3.08	.01	.06
Sept. 21 2:40	150	3.08	0	0
2:50	10	3.09	.01	.06
3:00	10	3.10	.01	.06
4:10	70	3.10	0	0
4:20	10	3.11	.01	.06
4:30	10	3.12	.01	.06
5:00	30	3.12	0	0
5:10	10	3.14	.02	.12
5:20	10	3.14	0	0
5:30	10	3.15	.01	.06
5:40	10	3.16	.01	.06
5:00	10	3.16	.00	.00
6:10	10	3.17	.01	.06
6:20	10	3.17	.00	.00
6:30	10	3.18	.01	.06
6:40	10	3.19	.01	.06

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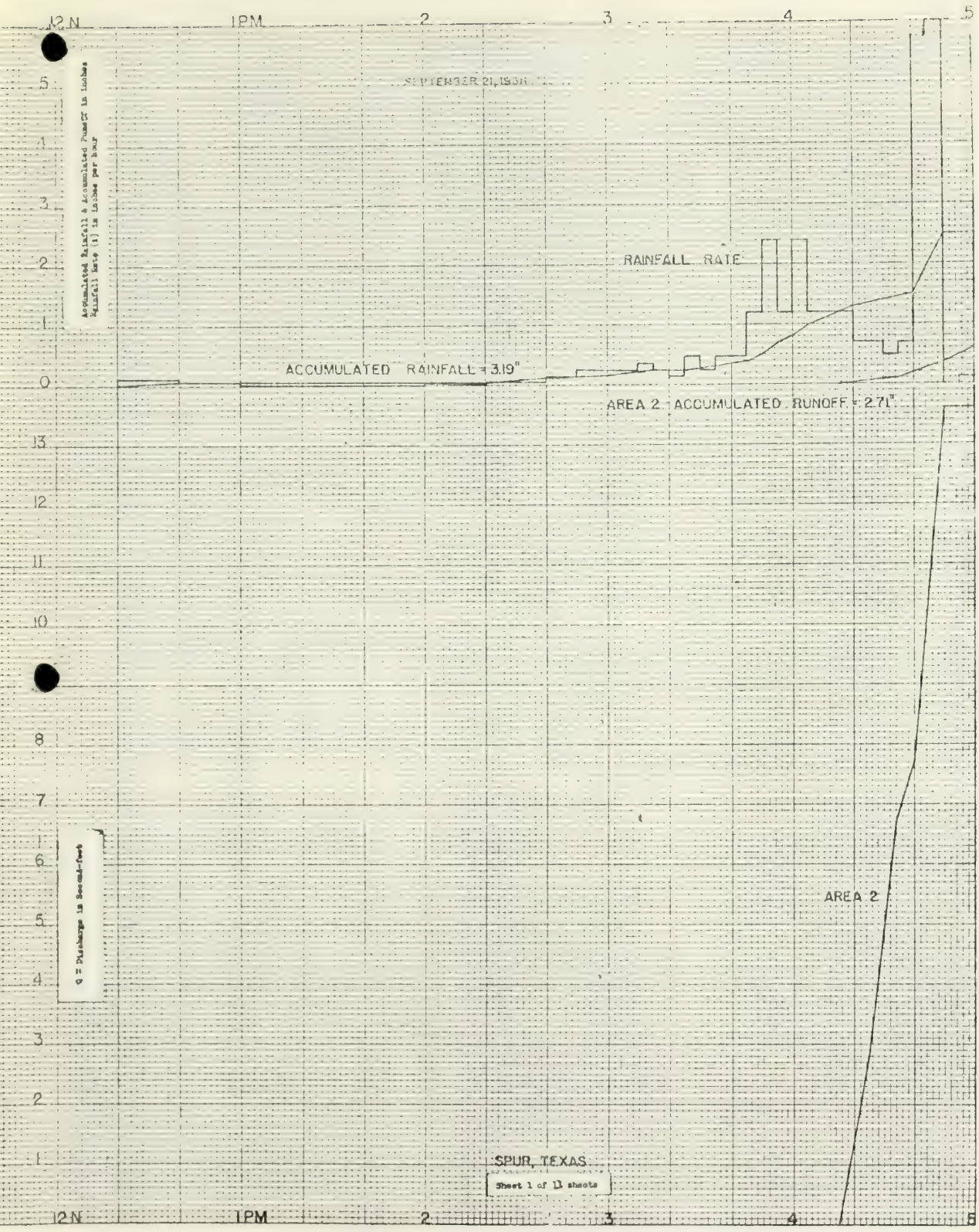
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SPUR, TEXAS.

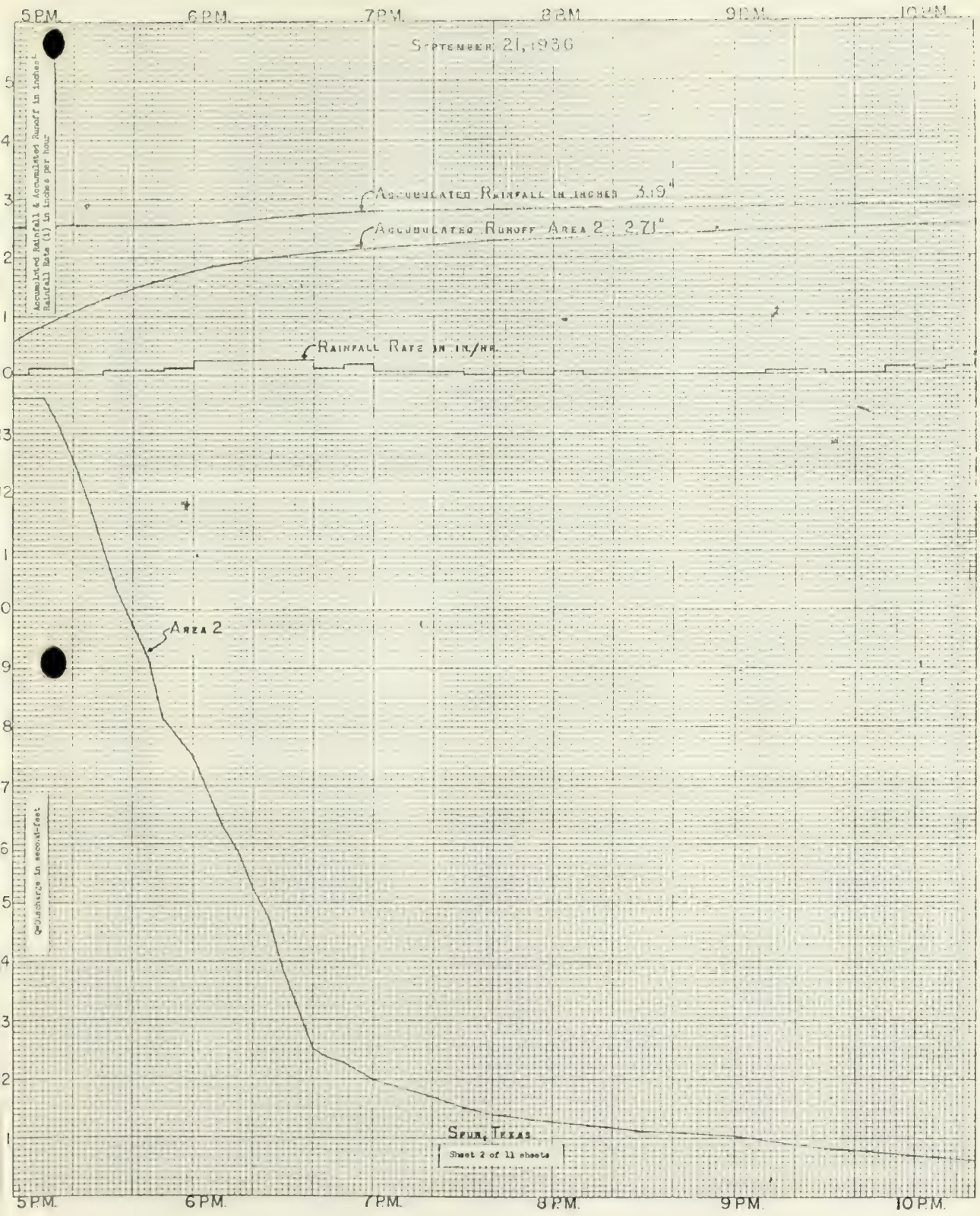
STORM NO. _____ September 21, 1936

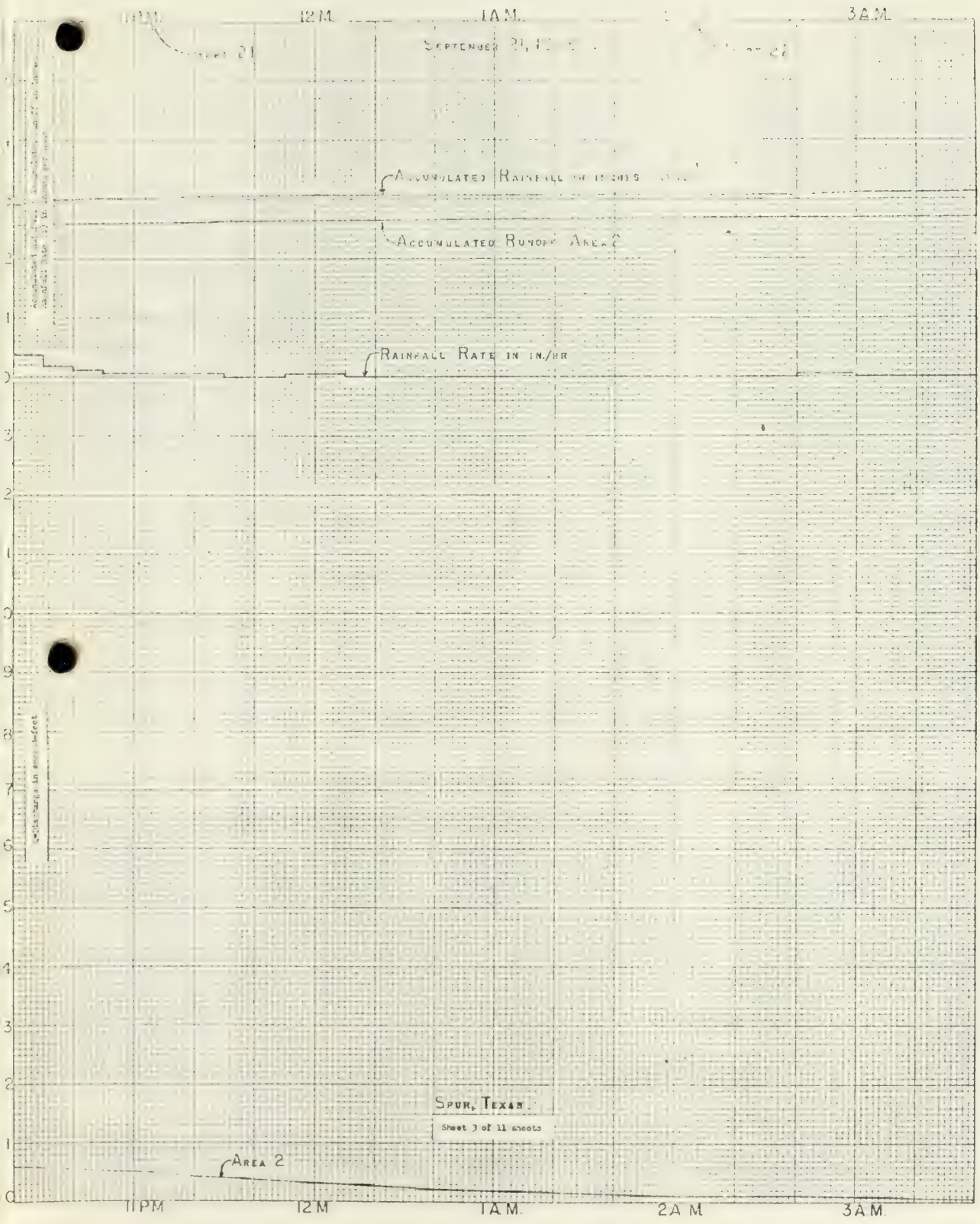
SPUR, TEXAS

Sheet 7 of 7 Sheets

Plot by LUN date 10-6-39 checked by WHB date 10-6-39
Computations by W.H.B date 10-6-39 checked by LUN date 10-6-39.


12 N
1 PM
2
3
4
5
SEPTEMBER 21, 1938
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
RAINFALL RATE
ACCUMULATED RAINFALL = 3.19"
AREA 2 ACCUMULATED RUNOFF = 2.71"
Q = Discharge in Second-Feet
AREA 2
SPUR, TEXAS
Sheet 1 of 11 sheets


5PM.
6PM.
7PM.
8PM.
9PM.
10PM.
September 21, 1936
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
Accumulated Rainfall in inches 3.19"
Accumulated Runoff Area 2 2.71"
Rainfall Rate in in/hr.
Area 2
Q=Discharge in second-feet
Spur, Texas
Sheet 2 of 11 sheets


11PM
12M
1A.M.
3A.M.
Accumulated Rainfall in inches
Accumulated Runoff Area 2
Rainfall Rate in in./hr
Spur, Texas
Sheet 3 of 11 sheets
Area 2
11PM
12M
1A.M.
2A.M.
3A.M.

4 A.M. 5 A.M. 6 A.M. 7 A.M. 8 A.M.

SEPTEMBER 21, 1936

ACCUMULATED RAINFALL IN INCHES 3.19"

ACCUMULATED RUNOFF AREA 2 2.71"

RAINFALL RATE IN IN/HR

AREAS NOS. 2 & 7

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $i = \frac{60 inc.d}{inc.t}$ in./hr.
12:20	0	0	0	0
12:40	20	.04	.04	.12
1:00 PM	20	.06	.02	.06
2:30 PM	60	.07	.01	.01
2:40	20	.08	.01	.03
2:50	10	.09	.01	.06
2:40	10	.10	.01	.06
2:45	5	.11	.01	.12
2:50	5	.12	.01	.12
2:55	5	.14	.02	.24
3:00	5	.16	.02	.24
3:05	5	.18	.02	.24
3:10	5	.20	.02	.24
3:15	5	.23	.03	.36
3:20	5	.25	.02	.24
3:25	5	.26	.01	.12
3:30	5	.30	.04	.48
3:35	5	.32	.02	.24
3:40	5	.36	.04	.48
3:45	5	.40	.04	.48
3:50	5	.50	.10	1.2
3:55	5	.70	.20	2.40
4:00	5	.80	.10	1.20
4:05	5	1.00	.20	2.40
4:10	5	1.10	.10	1.2
4:15	5	1.20	.10	1.2
4:20	5	1.30	.10	1.20
4:25	5	1.36	.06	.72
4:30	5	1.42	.06	.72
4:35	5	1.46	.04	.48
4:40	5	1.52	.06	.72
4:45	5	2.00	.48	5.76
4:50	5	2.50	.50	6.00
4:55	5	2.50	0	0
5:00	5	2.51	.01	.12
5:05	5	2.51	0	0
5:10	5	2.52	.01	.12
5:15	5	2.53	.01	.12
5:20	5	2.54	.01	.12
5:30	10	2.54	0	0
5:40	10	2.55	.01	.06
5:50	10	2.56	.01	.06
6:00	10	2.58	.02	.12
6:10	10	2.62	.04	.24
6:20	10	2.66	.04	.24
6:30	10	2.70	.04	.24
6:40	10	2.74	.04	.24
6:50	10	2.76	.02	.12
7:00	10	2.79	.03	.18
7:10	10	2.80	.01	.06
7:20	10	2.81	.01	.06
7:30	10	2.82	.01	.06
7:40	10	2.82	0	0
7:50	10	2.83	.01	.06
8:00	10	2.83	0	0
8:10	10	2.84	.01	.06
9:10	60	2.84	0	0
9:20	10	2.85	.01	.06
9:30	10	2.86	.01	.06
9:50	20	2.86	0	0
10:00	10	2.88	.02	.12
10:10	10	2.89	.01	.06
10:20	10	2.91	.02	.12
10:30	10	2.97	.06	.36
10:40	10	3.00	.03	.18
10:50	10	3.02	.02	.12
11:00	10	3.03	.01	.06
11:10	10	3.04	.01	.06
11:20	10	3.05	.01	.06
11:30	10	3.06	.01	.06
11:50	20	3.06	0	0
12:00	10	3.07	.01	.06
12:10	10	3.08	.01	.06
2:40	150	3.08	0	0
2:50	10	3.09	.01	.06
3:00	10	3.10	.01	.06
4:10	70	3.10	0	0
4:20	10	3.11	.01	.06
4:30	10	3.12	.01	.06
5:00	30	3.12	0	0
5:10	10	3.14	.02	.12
5:20	10	3.14	0	0
5:30	10	3.15	.01	.06
5:40	10	3.16	.01	.06
6:00	20	3.16	0	0
6:10	10	3.17	.01	.06
6:20	10	3.17	0	0
6:30	10	3.18	.01	.06
6:40	10	3.19	.01	.06

Area (acres)
Preceding Rain (in.)
date began
duration (hours)
Temperature (max. & min.)
Soil (major type)
percent of area
Slope, average (percent)
maximum
Cover, type
height (ft.)
date last cultivated
Soil loss (tons per acre)
Remarks

AREA NO. 2	AREA NO. 7
9.306	6.329
1.79	3.79
9-15-36	9-15-36
Intermittent over 6 day period 9-15 to 9-20 incl. 82-64	Intermittent over 6 day period 9-15 to 9-20 incl. 82-64
Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
100%	100%
0.5%	0.3%
0.6%	1.0%
Cotton	Cotton
2 to 3 feet	2 to 3 feet
Rows with slope. Moisture content 15.0% on 8-20-36 Moisture content 21.3% on 11-12-36	Level terraces with borders diked to hold all water that falls on area. Moisture content 14.6% on 8-20-36. Moisture content 23.9% on 11-12-36

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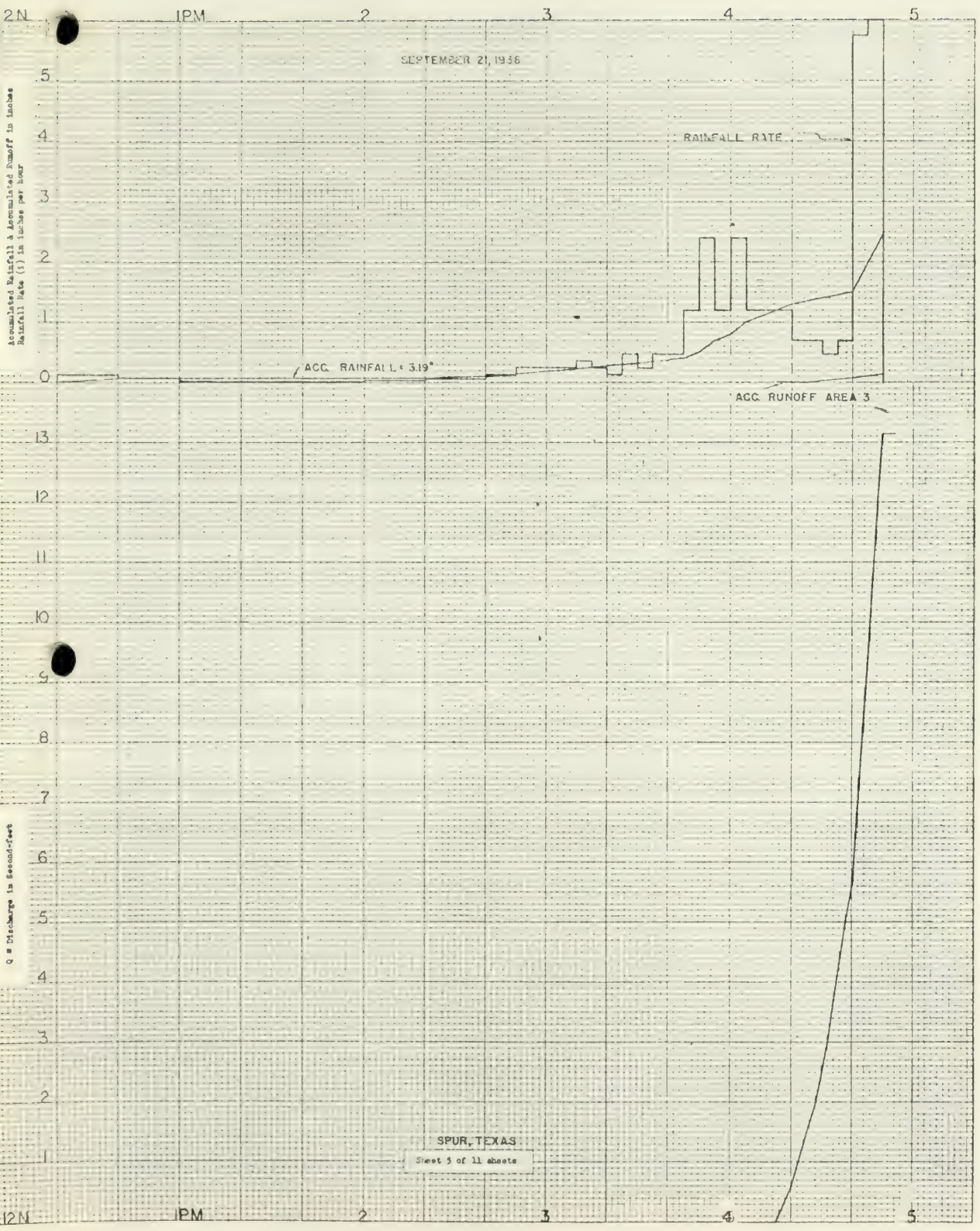
STORM NO. _____ September 21, 1936

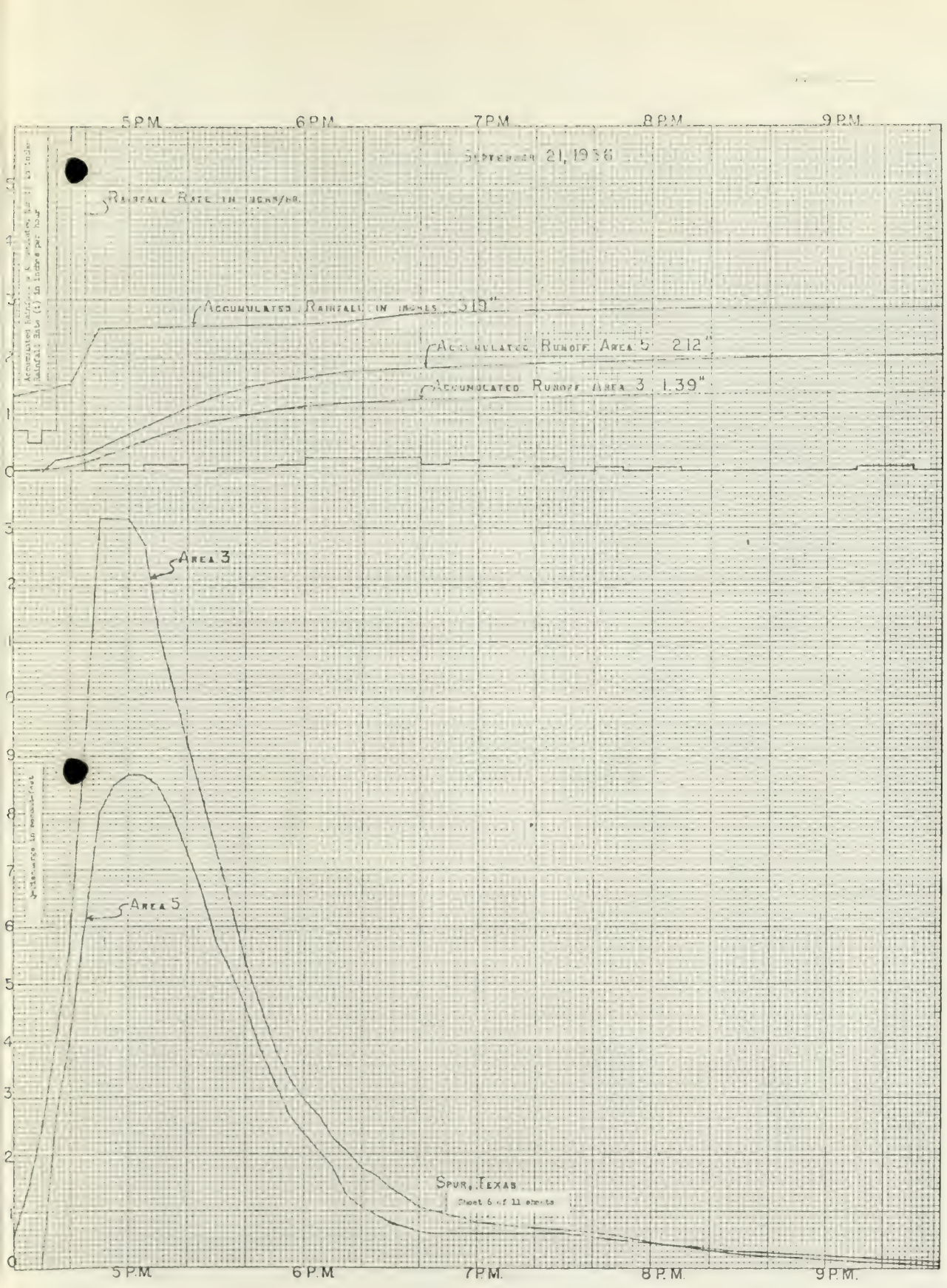
Plot by DBI date 8-25-39 checked by LEH date 8-25-39
Computations by DBI date 8-25-39 checked by DBI date 8-25-39

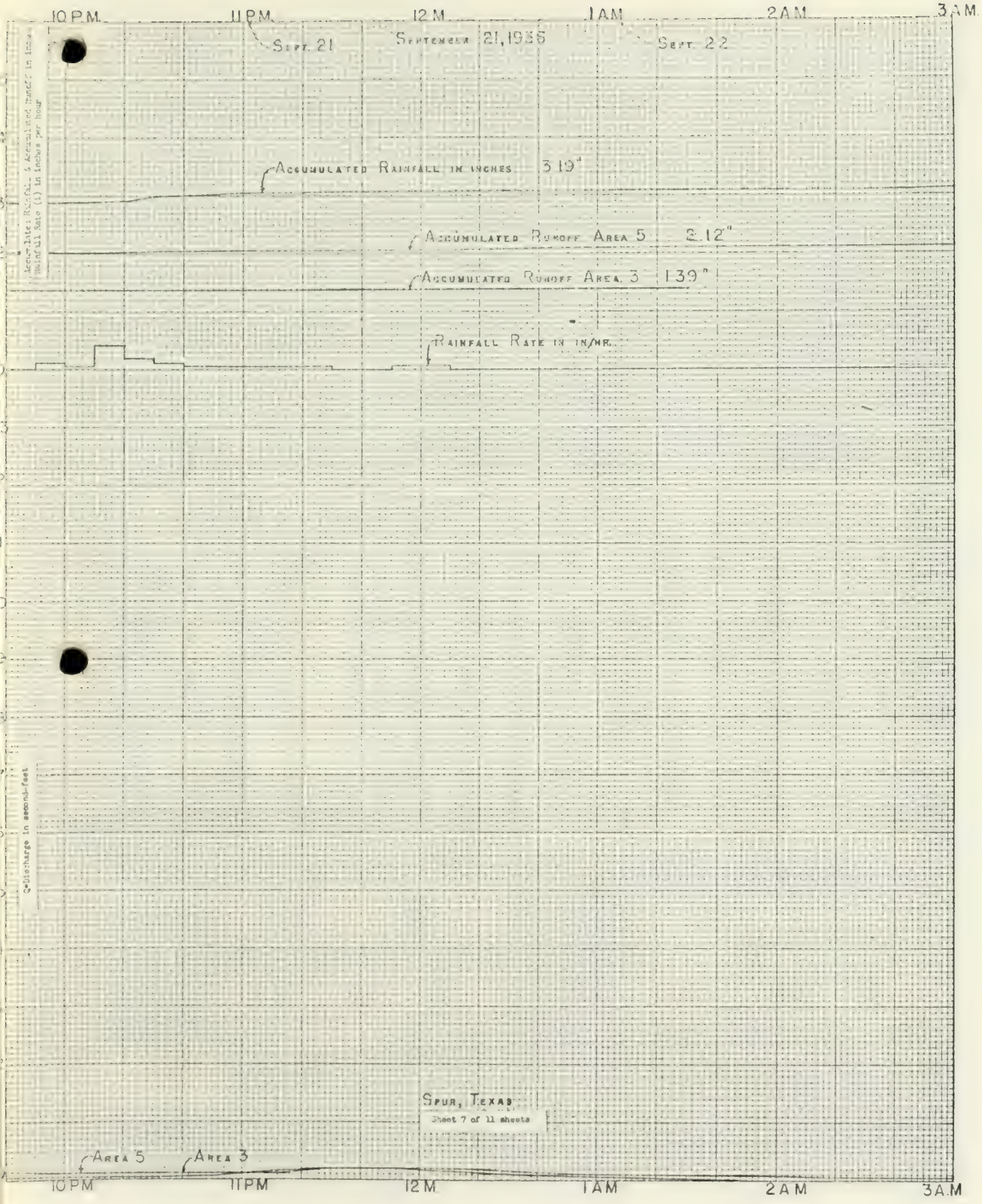
Sheet 4 of 11 sheets

AREA 2

4 A.M. 5 A.M. 6 A.M. 7 A.M. 8 A.M. 9 A.M.

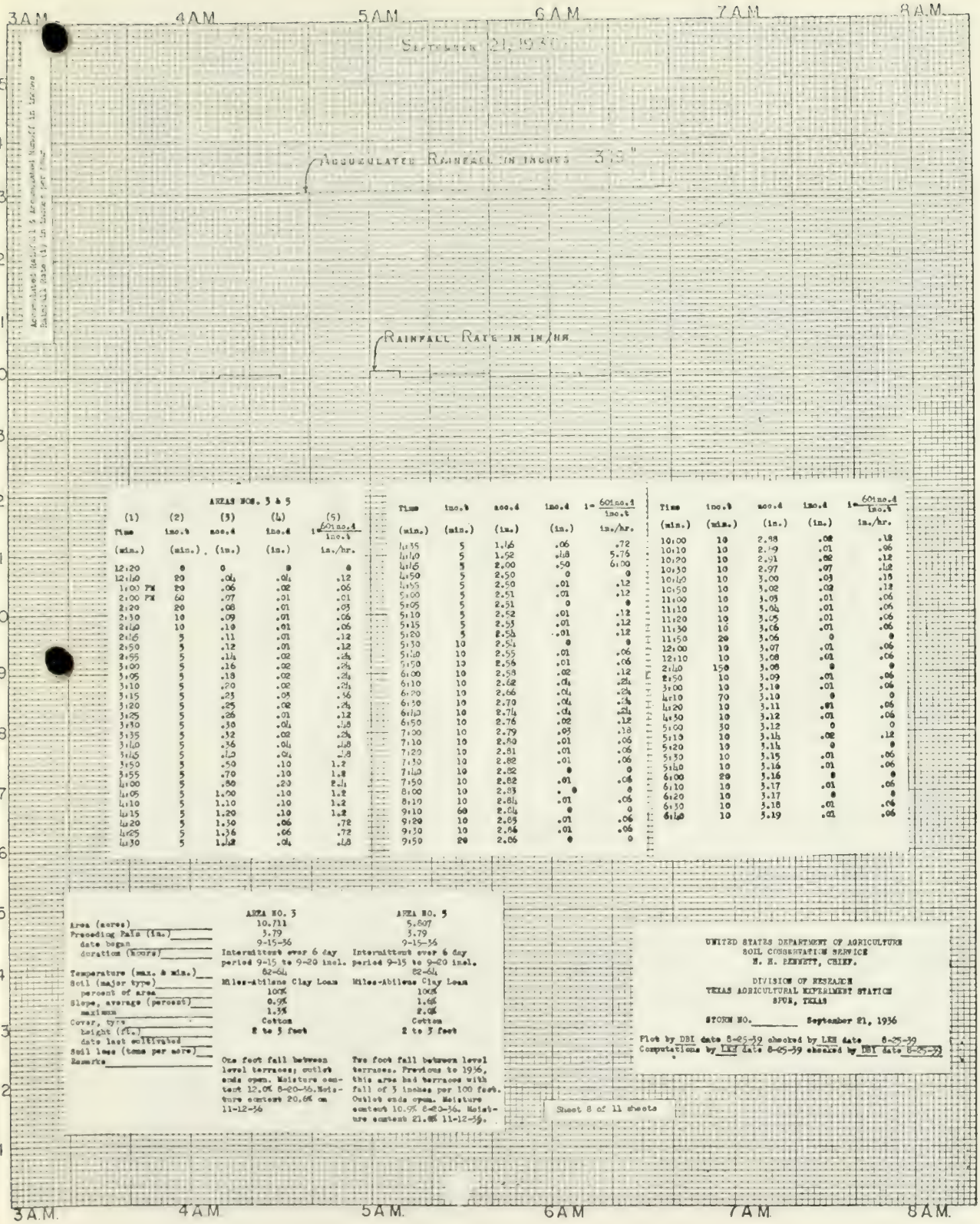

2N
1PM
2
3
4
5
SEPTEMBER 21, 1936
RAINFALL RATE
ACC. RAINFALL = 3.19"
ACC. RUNOFF AREA 3
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
Q = Discharge in Second-feet
SPUR, TEXAS
Sheet 5 of 11 sheets
12N
1PM
2
3
4
5


5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
September 21, 1936
Rainfall Rate in Ins./hr.
Accumulated Rainfall in Inches 3.19"
Accumulated Runoff Area 5 2.12"
Accumulated Runoff Area 3 1.39"
Area 3
Area 5
Spur, Texas
Sheet 6 of 11 sheets



Spur, Texas

Sheet 7 of 11 sheets



AREAS NOS. 3 & 5

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $i=\frac{60\,inc.d}{inc.t}$ in./hr.
12:20	0	0	0	0
12:40	20	.04	.04	.12
1:00 PM	20	.06	.02	.06
2:00 PM	60	.07	.01	.01
2:20	20	.08	.01	.03
2:30	10	.09	.01	.06
2:40	10	.10	.01	.06
2:46	5	.11	.01	.12
2:50	5	.12	.01	.12
2:55	5	.14	.02	.24
3:00	5	.16	.02	.24
3:05	5	.18	.02	.24
3:10	5	.20	.02	.24
3:15	5	.23	.03	.36
3:20	5	.25	.02	.24
3:25	5	.26	.01	.12
3:30	5	.30	.04	.48
3:35	5	.32	.02	.24
3:40	5	.36	.04	.48
3:45	5	.40	.04	.48
3:50	5	.50	.10	1.2
3:55	5	.70	.10	1.8
4:00	5	.80	.10	2.4
4:05	5	1.00	.10	1.2
4:10	5	1.10	.10	1.2
4:15	5	1.20	.10	1.2
4:20	5	1.30	.06	.72
4:25	5	1.36	.06	.72
4:30	5	1.42	.04	.48
4:35	5	1.46	.06	.72
4:40	5	1.52	.06	5.76
4:45	5	2.00	.50	6.00
4:50	5	2.50	0	0
4:55	5	2.50	.01	.12
5:00	5	2.51	.01	.12
5:05	5	2.51	0	0
5:10	5	2.52	.01	.12
5:15	5	2.53	.01	.12
5:20	5	2.54	.01	.12
5:30	10	2.54	0	0
5:40	10	2.55	.01	.06
5:50	10	2.56	.01	.06
6:00	10	2.58	.02	.12
6:10	10	2.62	.04	.24
6:20	10	2.66	.04	.24
6:30	10	2.70	.04	.24
6:40	10	2.74	.04	.24
6:50	10	2.76	.02	.12
7:00	10	2.79	.03	.18
7:10	10	2.80	.01	.06
7:20	10	2.81	.01	.06
7:30	10	2.82	.01	.06
7:40	10	2.82	0	0
7:50	10	2.82	.01	.06
8:00	10	2.83	0	0
8:10	10	2.84	.01	.06
9:10	60	2.84	0	0
9:20	10	2.85	.01	.06
9:30	10	2.86	.01	.06
9:50	20	2.86	0	0
10:00	10	2.88	.02	.12
10:10	10	2.89	.01	.06
10:20	10	2.91	.02	.12
10:30	10	2.97	.07	.42
10:40	10	3.00	.03	.18
10:50	10	3.02	.02	.12
11:00	10	3.03	.01	.06
11:10	10	3.04	.01	.06
11:20	10	3.05	.01	.06
11:30	10	3.06	.01	.06
11:50	20	3.06	0	0
12:00	10	3.07	.01	.06
12:10	10	3.08	.01	.06
2:40	150	3.08	0	0
2:50	10	3.09	.01	.06
3:00	10	3.10	.01	.06
4:10	70	3.10	0	0
4:20	10	3.11	.01	.06
4:30	10	3.12	.01	.06
5:00	30	3.12	0	0
5:10	10	3.14	.02	.12
5:20	10	3.14	0	0
5:30	10	3.15	.01	.06
5:40	10	3.16	.01	.06
6:00	20	3.16	0	0
6:10	10	3.17	.01	.06
6:20	10	3.17	0	0
6:30	10	3.18	.01	.06
6:40	10	3.19	.01	.06

	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.807
Preceding Rain (in.)	3.79	3.79
date began	9-15-36	9-15-36
duration (hours)	Intermittent over 6 day period 9-15 to 9-20 incl.	Intermittent over 6 day period 9-15 to 9-20 incl.
Temperature (max. & min.)	82-64	82-64
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	0.9%	1.4%
maximum	1.3%	2.0%
Cover, type	Cotton	Cotton
height (ft.)	2 to 3 feet	2 to 3 feet
date last cultivated		
Soil loss (tons per acre)		
Remarks	One foot fall between level terraces; outlet ends open. Moisture content 12.0% 8-20-36. Moisture content 20.6% on 11-12-36	Two foot fall between level terraces. Previous to 1936, this area had terraces with fall of 3 inches per 100 feet. Outlet ends open. Moisture content 10.9% 8-20-36. Moisture content 21.8% 11-12-36.

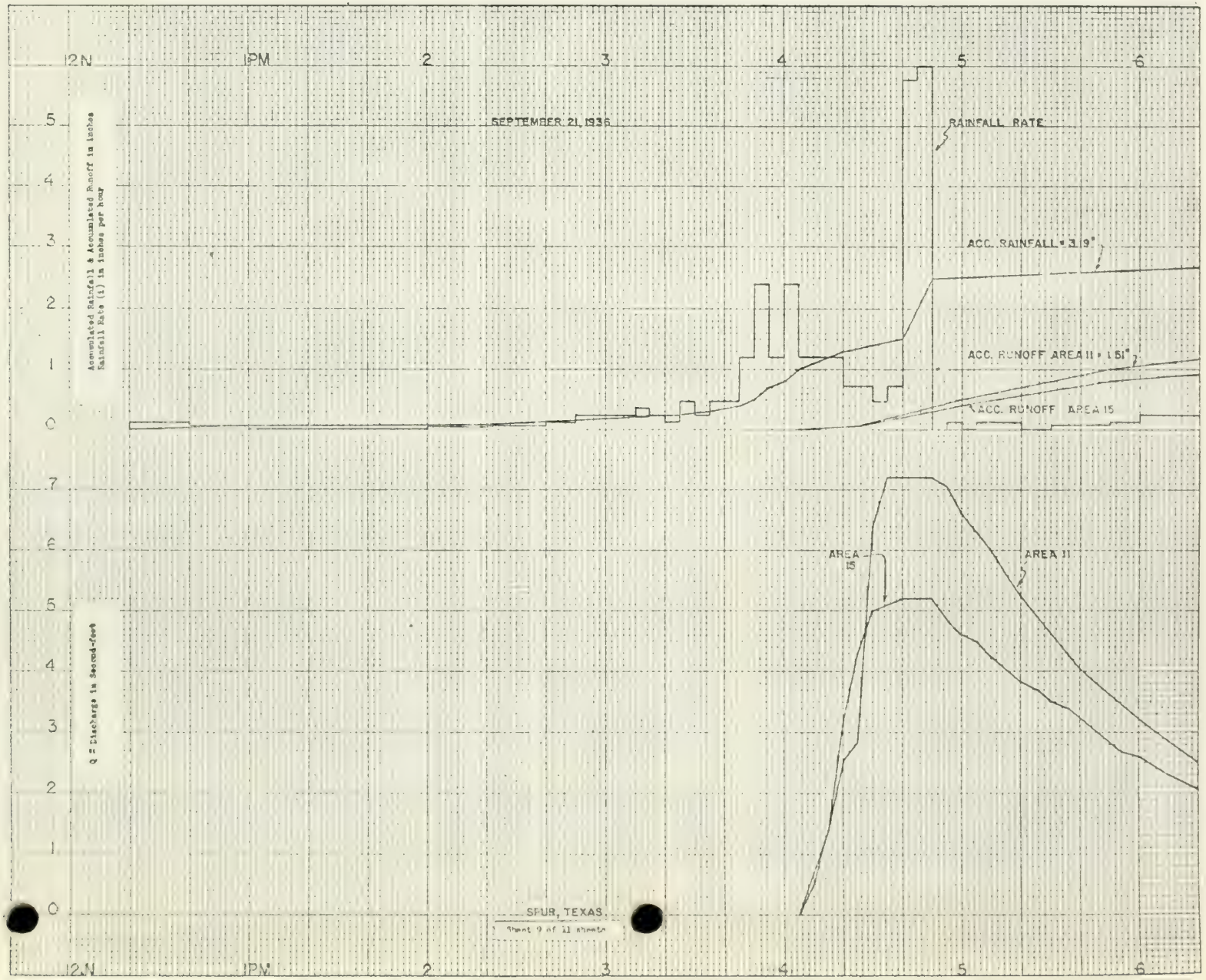
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF.

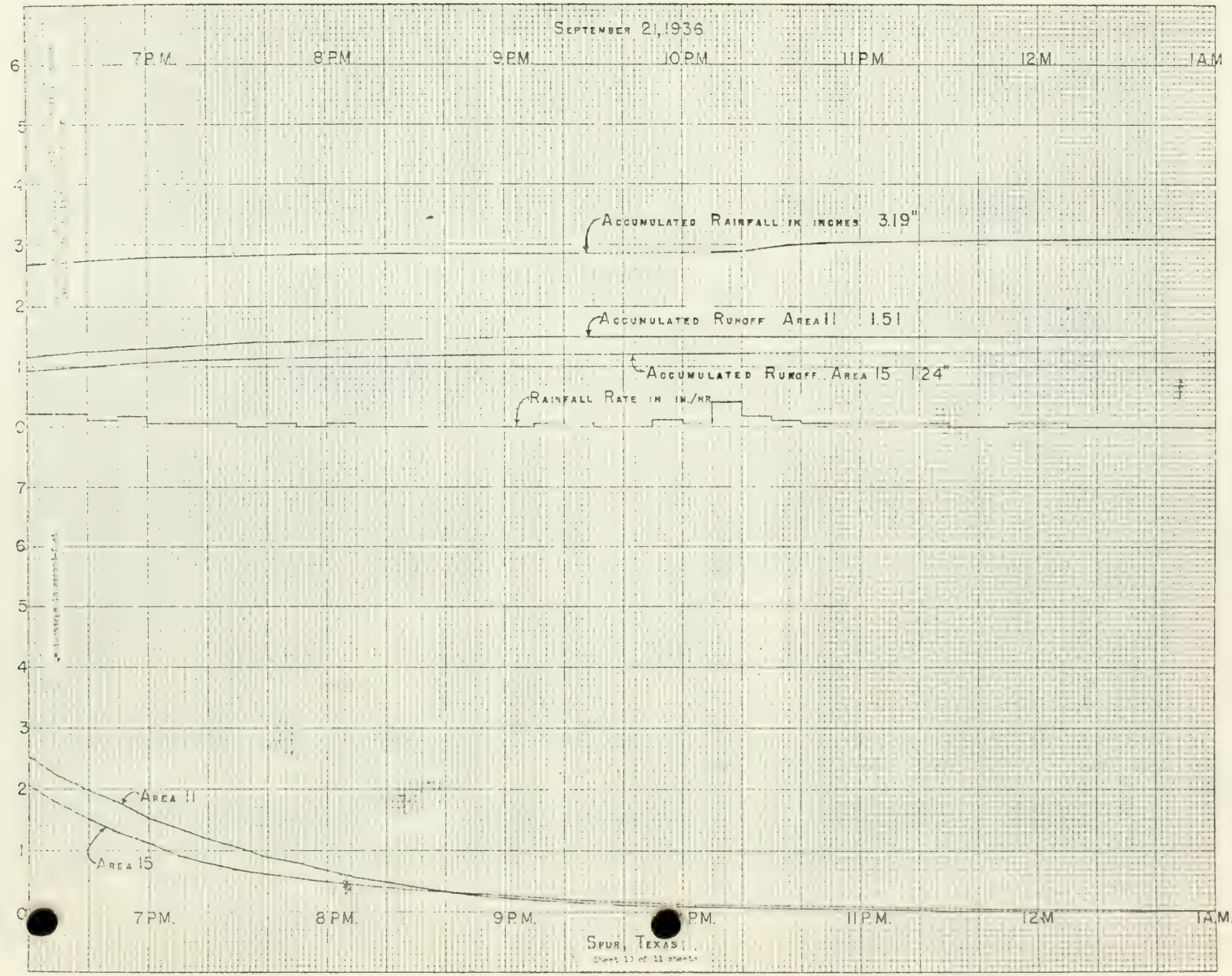
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

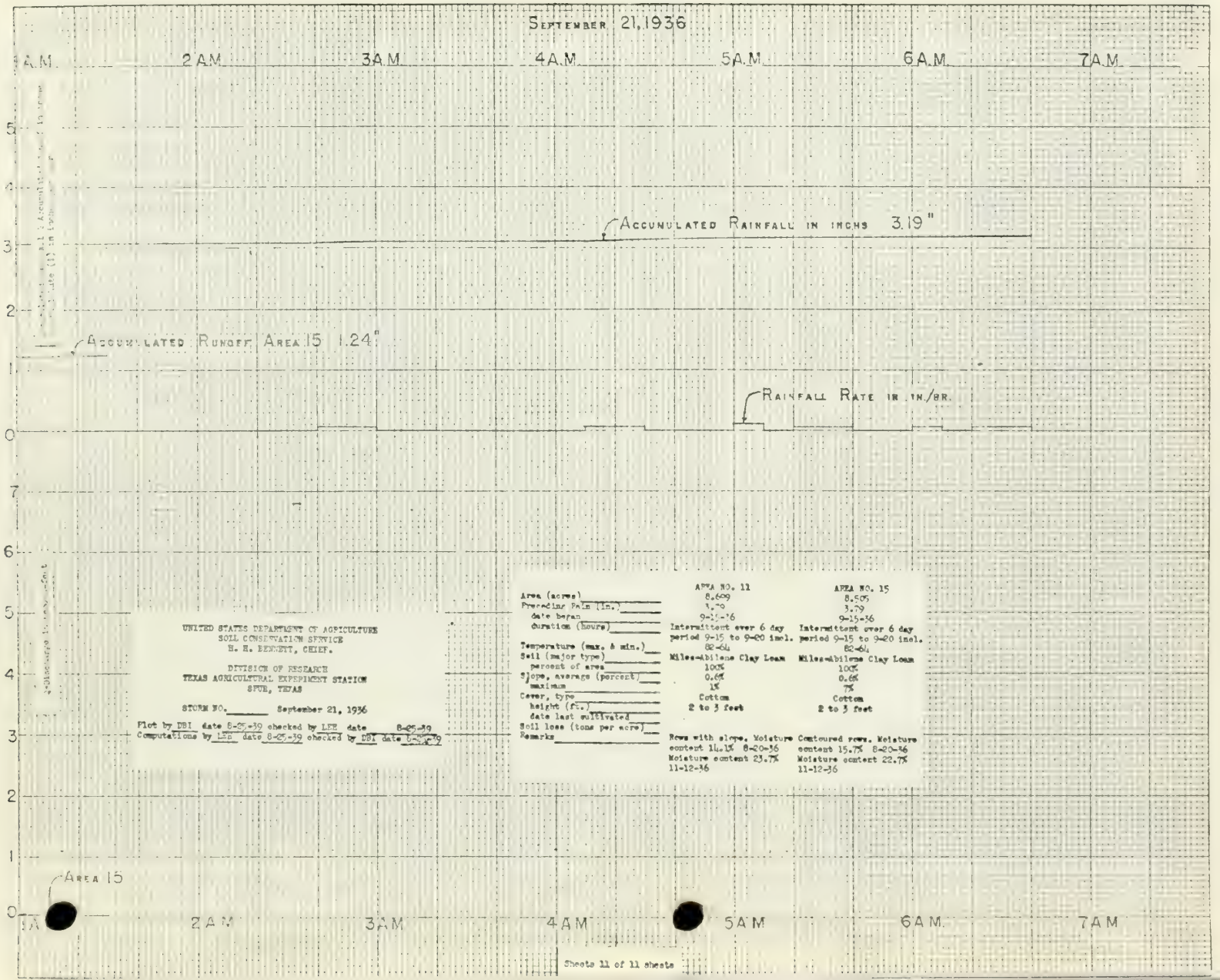
STORM NO. _____ September 21, 1936

Plot by DBI date 8-25-39 checked by LEH date 8-25-39
Computations by LEH date 8-25-39 checked by DBI date 8-25-39

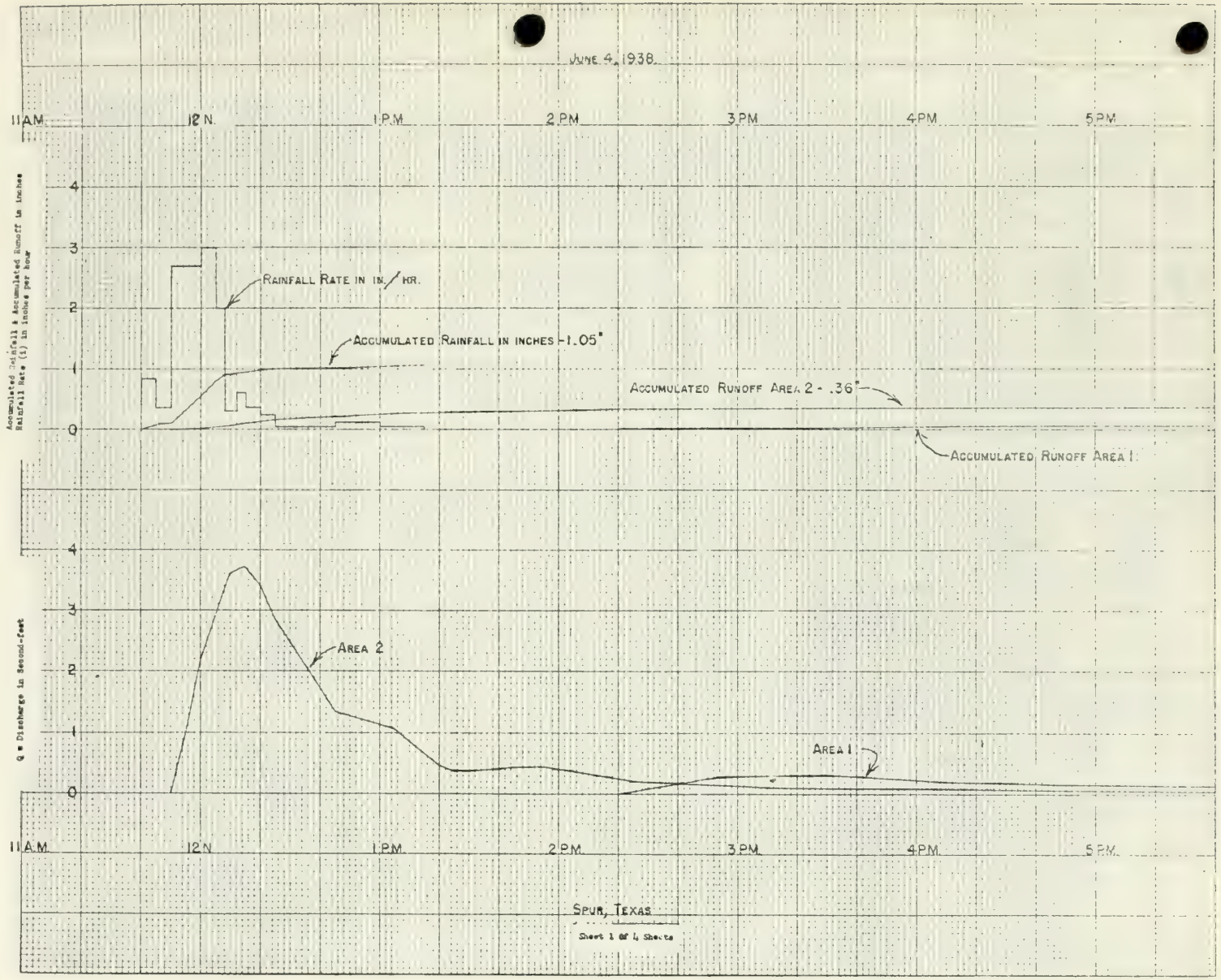
Sheet 8 of 11 sheets

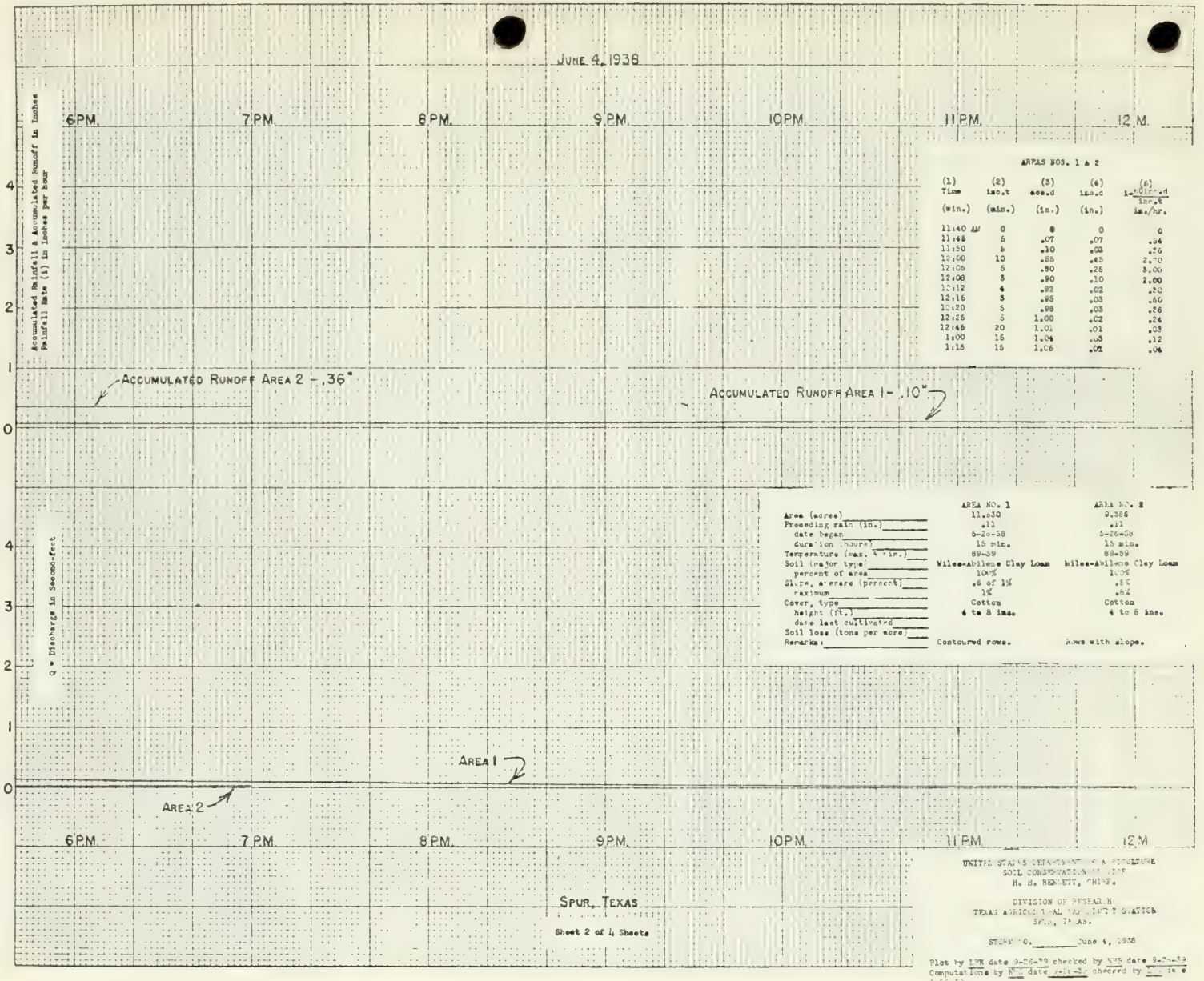

12N
1PM
2
3
4
5
6
SEPTEMBER 21, 1936
RAINFALL RATE
ACC. RAINFALL = 3.19"
ACC. RUNOFF AREA 11 = 1.51"
ACC. RUNOFF AREA 15
Accumulated Rainfall & Accumulated Runoff in inches
Rainfall Rate (i) in inches per hour
Q = Discharge in Second-feet
AREA 15
AREA 11
SPUR, TEXAS
Sheet 9 of 11 sheets


SEPTEMBER 21, 1936
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 M.
1 A.M.
ACCUMULATED RAINFALL IN INCHES 3.19"
ACCUMULATED RUNOFF AREA 11 1.51
ACCUMULATED RUNOFF AREA 15 1.24"
RAINFALL RATE IN IN./HR.
AREA 11
AREA 15
SPUR, TEXAS



Sheets 11 of 11 sheets


JUNE 4, 1938.
11 A.M.
12 N.
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
RAINFALL RATE IN IN. / HR.
ACCUMULATED RAINFALL IN INCHES - 1.05"
ACCUMULATED RUNOFF AREA 2 - .36"
ACCUMULATED RUNOFF AREA 1.
Q = Discharge in Second-feet
AREA 2
AREA 1
SPUR, TEXAS
Sheet 1 of 4 Sheets



AREAS NOS. 1 & 2

(1) Time (min.)	(2) Δt (min.)	(3) Σd (in.)	(4) Δd (in.)	(5) i = Δd/Δt in/hr.
11:40 AM	0	0	0	0
11:45	5	.07	.07	.84
11:50	5	.10	.03	.36
12:00	10	.55	.45	2.70
12:05	5	.80	.25	3.00
12:08	3	.90	.10	2.00
12:12	4	.92	.02	.30
12:16	3	.95	.03	.60
12:20	5	.98	.03	.36
12:26	6	1.00	.02	.24
12:46	20	1.01	.01	.03
1:00	15	1.04	.03	.12
1:15	15	1.06	.02	.08

	AREA NO. 1	AREA NO. 2
Area (acres)	11.030	9.386
Preceding rain (in.)	.11	.11
date began	6-20-38	6-26-38
duration (hours)	15 min.	15 min.
Temperature (max. & min.)	89-59	89-59
Soil (major type)	Wiles-Abilene Clay Loam	Wiles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	.6 of 1%	.6%
maximum	1%	.8%
Cover, type	Cotton	Cotton
height (ft.)	4 to 8 ins.	4 to 6 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured rows.	Rows with slope.

UNITED STATES DEPARTMENT OF AGRICULTURE
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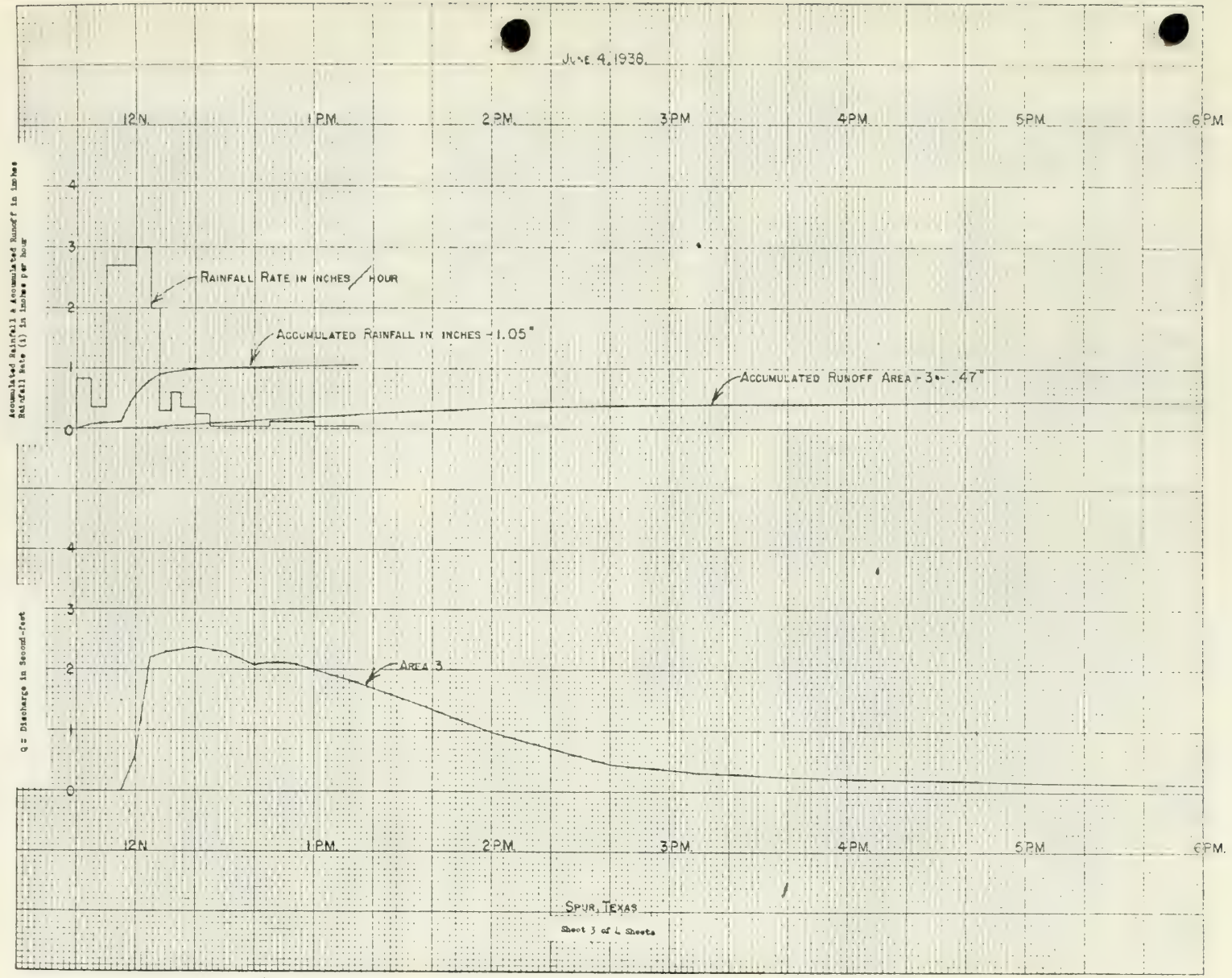
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

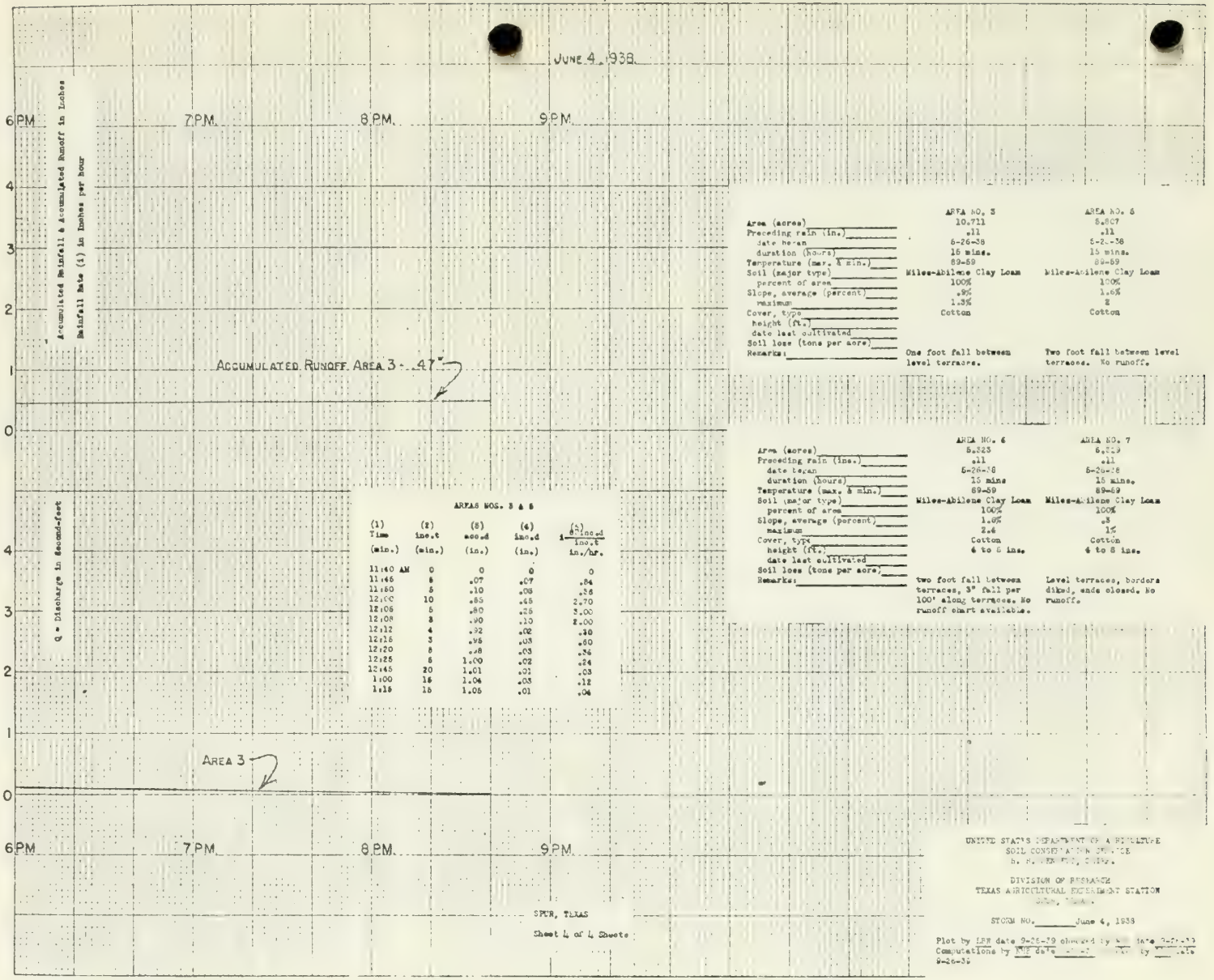
STORM NO. June 4, 1938

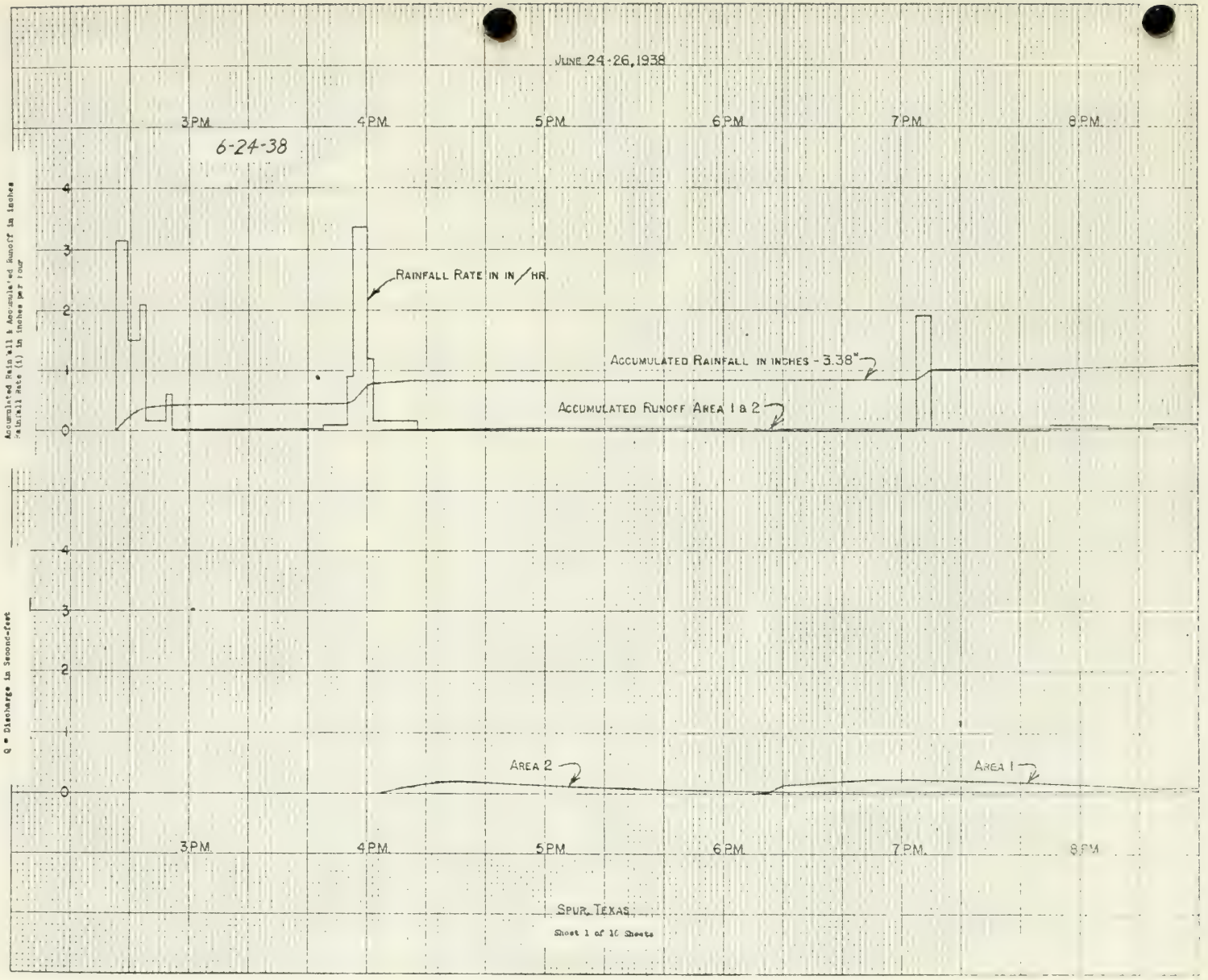
Plot by LWH date 9-28-39 checked by NMS date 9-30-39
Computations by NMS date 9-26-39 checked by LWH date 9-26-39

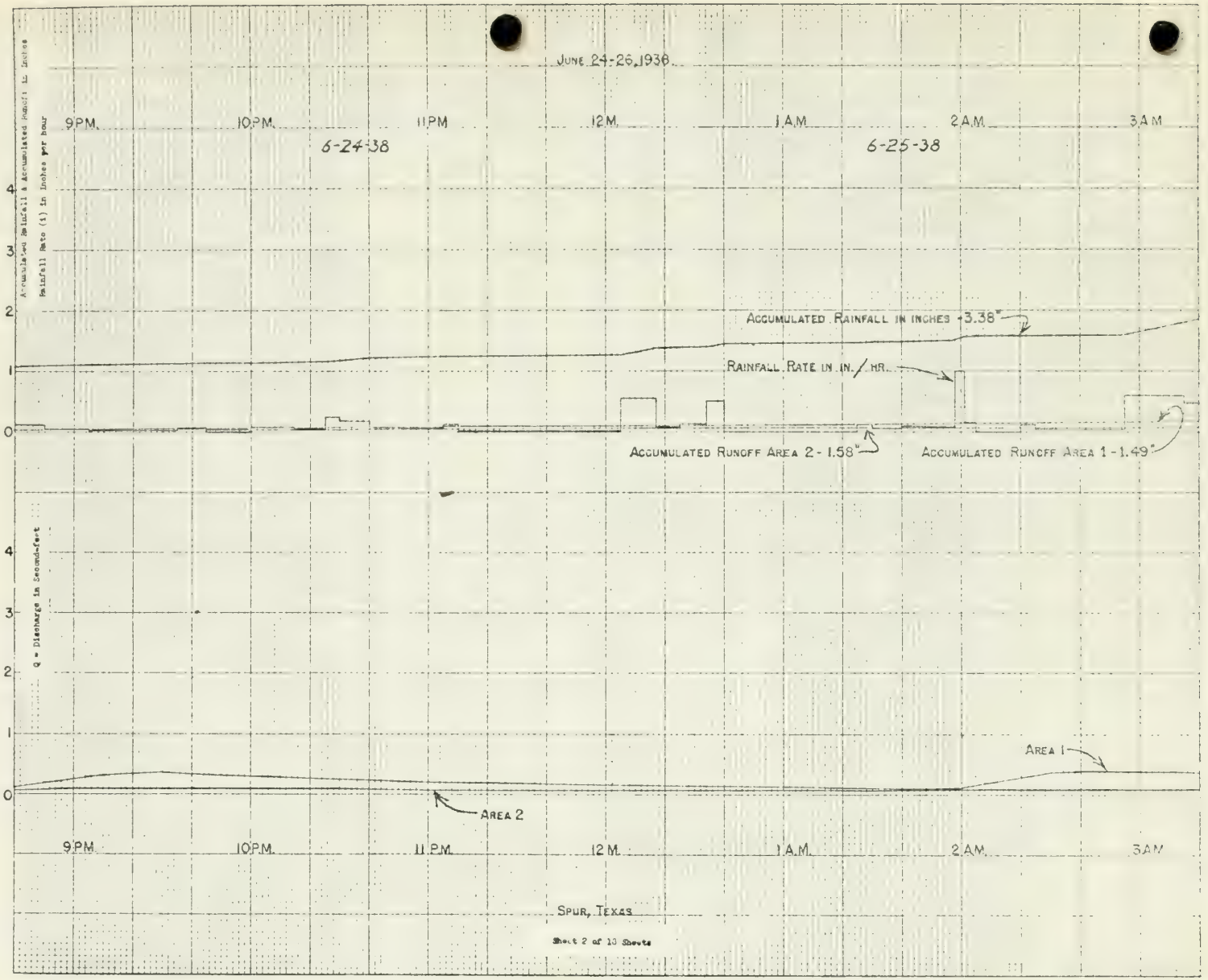
SPUR, TEXAS

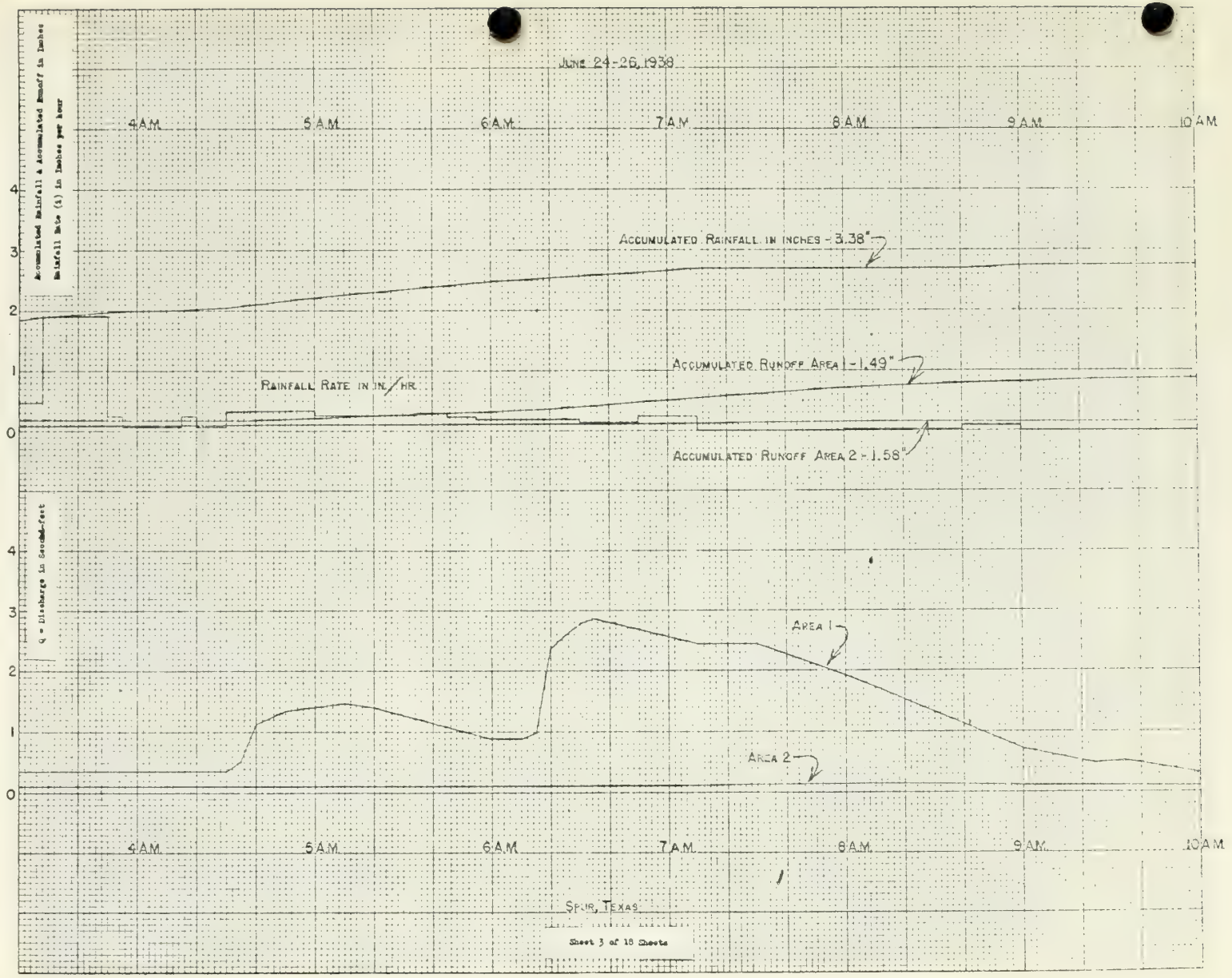
Sheet 2 of 4 Sheets

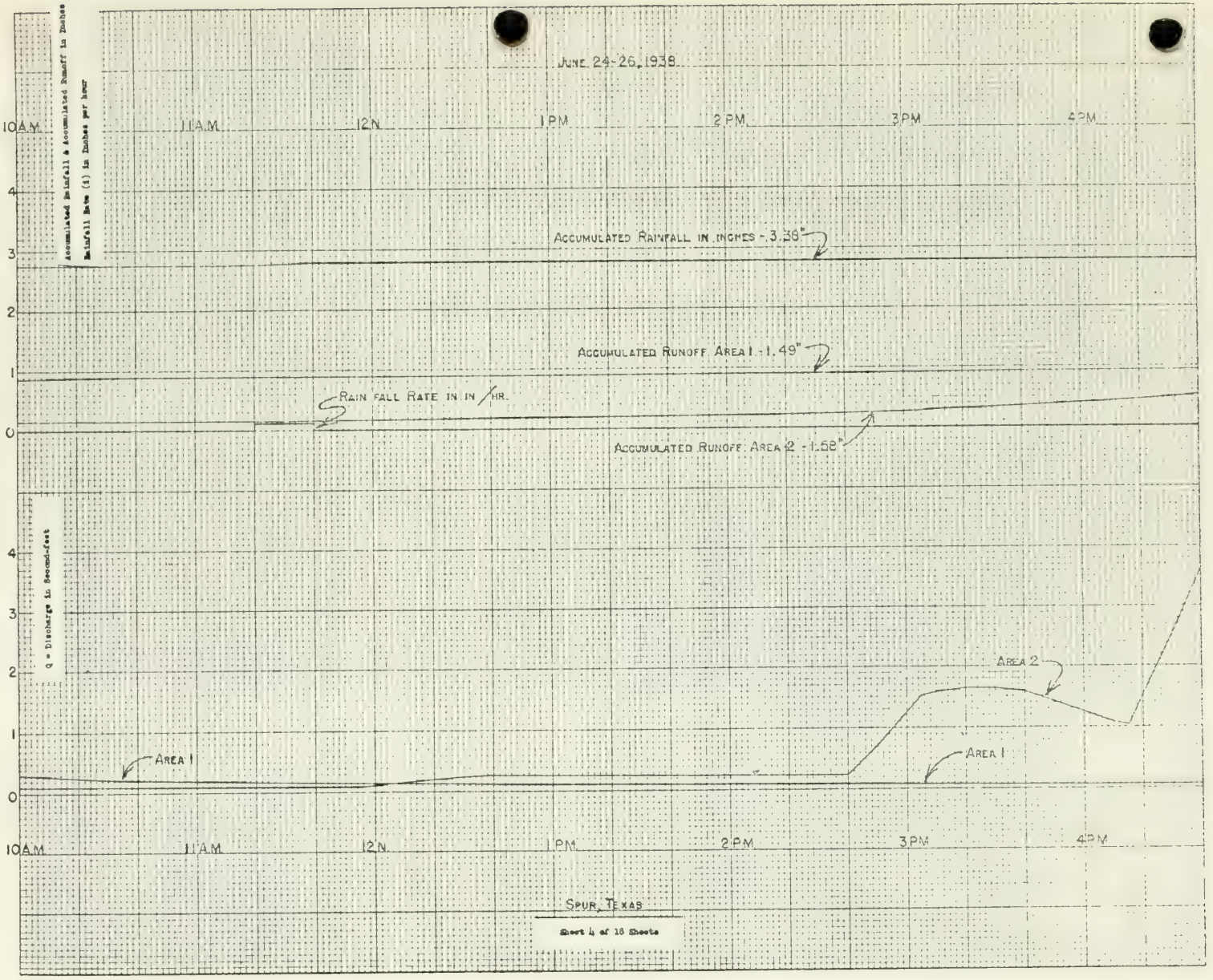

JUNE 4, 1938.
12 N.
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
RAINFALL RATE IN INCHES / HOUR
ACCUMULATED RAINFALL IN INCHES - 1.05"
ACCUMULATED RUNOFF AREA - 3 - .47"
Q = Discharge in Second-feet
AREA 3
SPUR, TEXAS
Sheet 3 of 4 Sheets

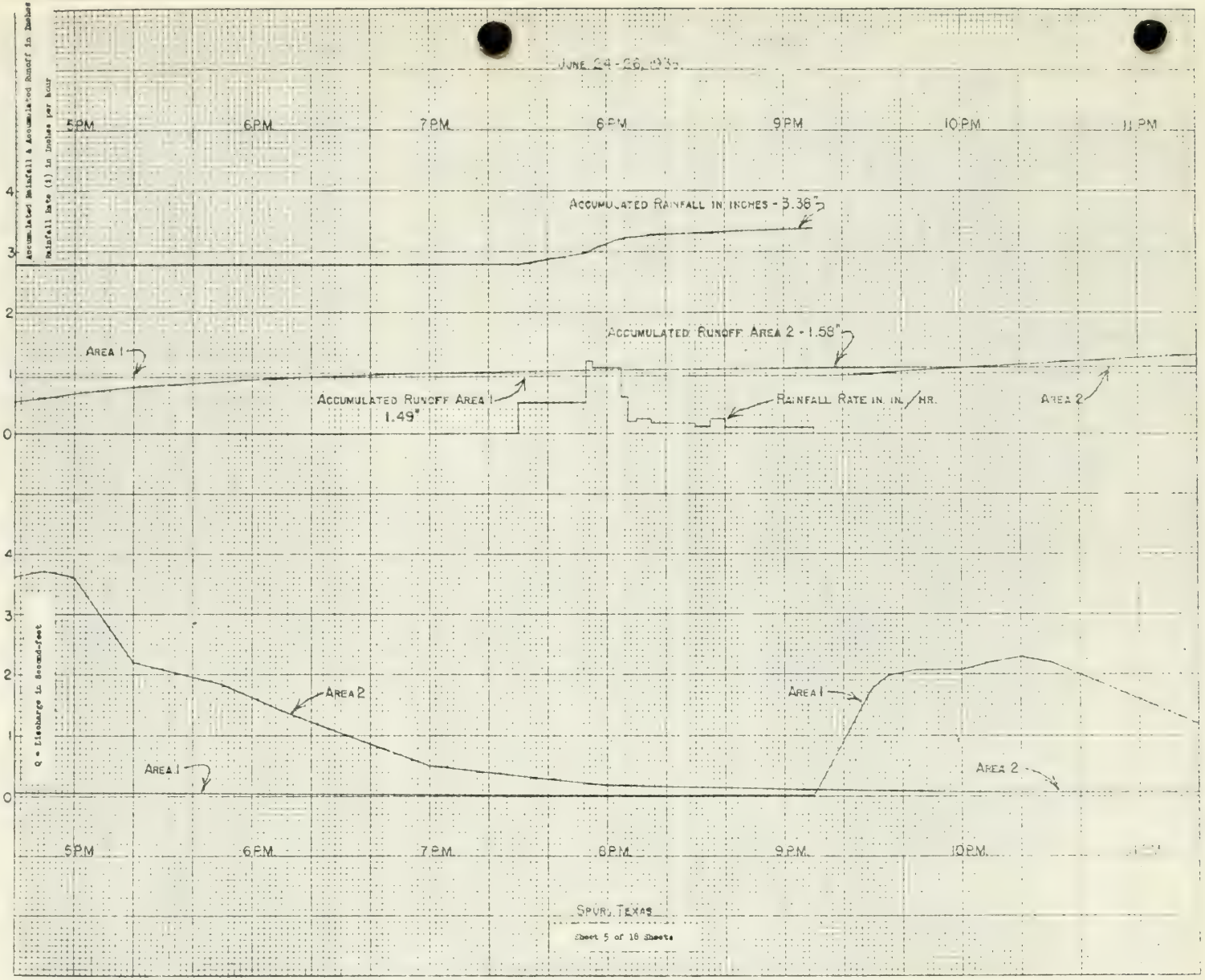

JUNE 4, 1938
6PM
7PM
8PM
9PM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Q = Discharge in Second-feet
ACCUMULATED RUNOFF, AREA 3 - .47"
AREA 3
AREAS NOS. 5 & 6
(1) Time (min.)
(2) Inc.t (min.)
(3) Acc.d (in.)
(4) Inc.d (in.)
(5) i = Inc.d / Inc.t in./hr.
11:40 AM 0 0 0 0
11:45 5 .07 .07 .84
11:50 5 .10 .03 .36
12:00 10 .35 .25 2.70
12:06 6 .50 .15 3.00
12:08 2 .52 .02 1.00
12:12 4 .54 .02 .30
12:16 4 .57 .03 .45
12:20 4 .58 .01 .15
12:25 5 .60 .02 .24
12:45 20 .62 .02 .06
1:00 15 .64 .02 .08
1:18 18 .66 .02 .07
SPUR, TEXAS
Sheet 4 of 4 Sheets
Area (acres)
Preceding rain (ins.)
date began
duration (hours)
Temperature (max. & min.)
Soil (major type)
percent of area
Slope, average (percent)
maximum
Cover, type
height (ft.)
date last cultivated
Soil loss (tons per acre)
Remarks:
AREA NO. 3
10.711
.11
6-26-38
15 mins.
89-69
Miles-Abilene Clay Loam
100%
.9%
1.3%
Cotton
One foot fall between level terraces.
AREA NO. 5
5.807
.11
6-26-38
15 mins.
89-69
Miles-Abilene Clay Loam
100%
1.6%
2
Cotton
Two foot fall between level terraces. No runoff.
AREA NO. 6
5.323
.11
6-26-38
15 mins
89-69
Miles-Abilene Clay Loam
100%
1.0%
2.4
Cotton
4 to 6 ins.
two foot fall between terraces, 3" fall per 100' along terraces. No runoff chart available.
AREA NO. 7
6.719
.11
6-26-38
15 mins.
89-69
Miles-Abilene Clay Loam
100%
.3
1%
Cotton
4 to 6 ins.
Level terraces, borders diked, ends closed. No runoff.
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
STORM NO. June 4, 1938
Plot by LEE date 9-25-39 checked by [illegible] date 9-[illegible]-39
Computations by MB date 9-26-39 Ck'd by [illegible] date 9-26-39

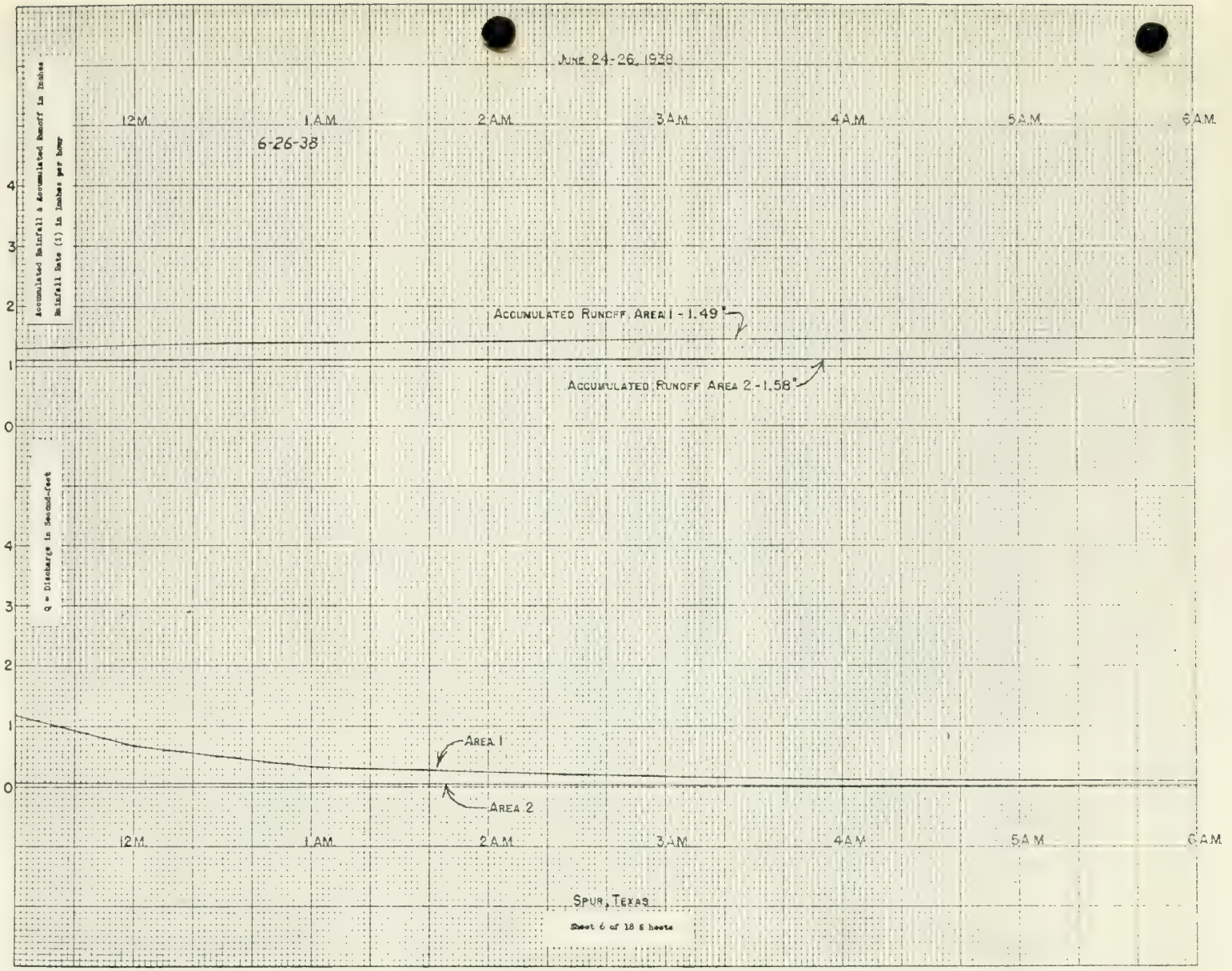

JUNE 24-26, 1938
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
6-24-38
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES - 3.38"
ACCUMULATED RUNOFF AREA 1 & 2
Q = Discharge in Second-feet
AREA 2
AREA 1
SPUR, TEXAS
Sheet 1 of 10 Sheets

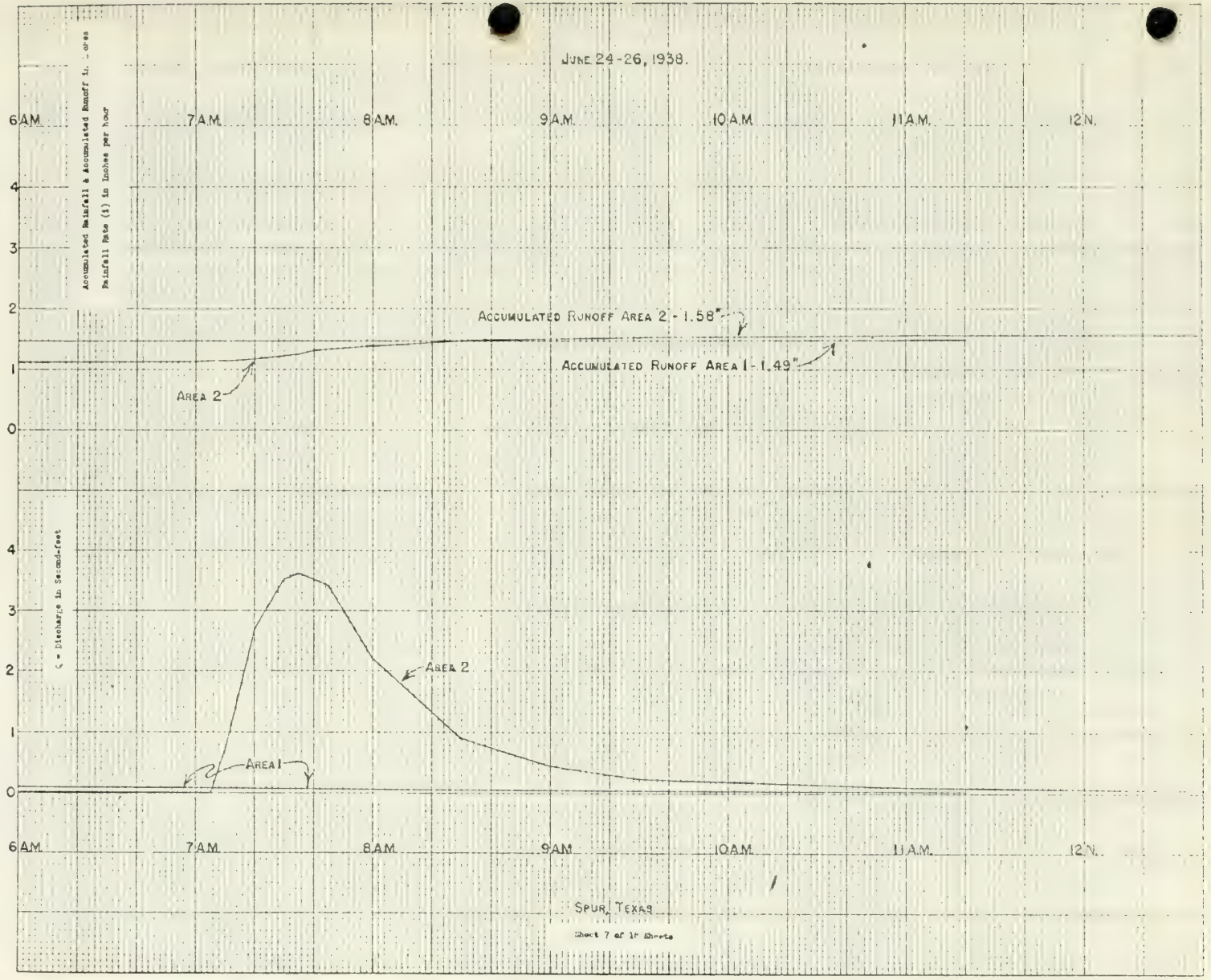

June 24-26, 1938
9 P.M.
10 P.M.
11 P.M.
12 M.
1 A.M.
2 A.M.
3 A.M.
6-24-38
6-25-38
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Accumulated Rainfall in Inches 3.38"
Rainfall Rate in In. / Hr.
Accumulated Runoff Area 2 - 1.58"
Accumulated Runoff Area 1 - 1.49"
Q = Discharge in Second-feet
Area 1
Area 2
Spur, Texas
Sheet 2 of 10 Sheets

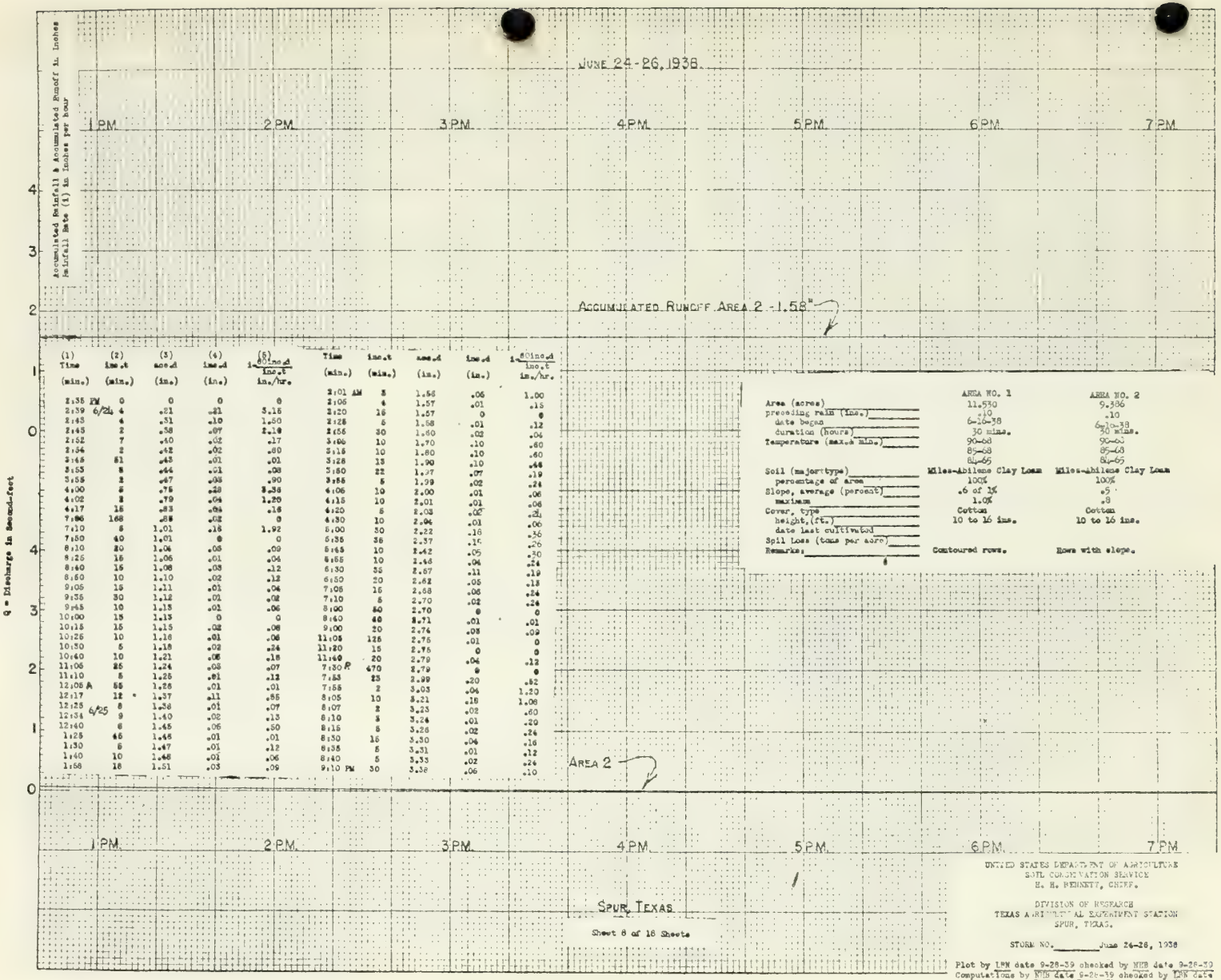

June 24-26, 1938
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
Accumulated Rainfall in Inches - 3.38"
Accumulated Runoff Area 1 - 1.49"
Rainfall Rate in in./hr.
Accumulated Runoff Area 2 - 1.58"
Q = Discharge in Second-feet
Area 1
Area 2
Spur, Texas
Sheet 3 of 18 Sheets


Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per Hour
JUNE 24-26, 1938
10 A.M.
11 A.M.
12 N.
1 P.M.
2 P.M.
3 P.M.
4 P.M.
ACCUMULATED RAINFALL IN INCHES - 3.38"
ACCUMULATED RUNOFF AREA 1 - 1.49"
RAIN FALL RATE IN IN./HR.
ACCUMULATED RUNOFF AREA 2 - 1.58"
Q = Discharge in Second-feet
AREA 2
AREA 1
AREA 1
SPUR, TEXAS
Sheet 4 of 18 Sheets


JUNE 24 - 26, 03
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per Hour
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
ACCUMULATED RAINFALL IN INCHES - 3.38"
ACCUMULATED RUNOFF AREA 2 - 1.58"
AREA 1
ACCUMULATED RUNOFF AREA 1
1.49"
RAINFALL RATE IN IN./HR.
AREA 2
Q = Discharge in Second-feet
AREA 2
AREA 1
AREA 1
AREA 2
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
SPUR, TEXAS
Sheet 5 of 18 Sheets


June 24-26, 1938
12M
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
6-26-38
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (1) in Inches per Hour
4
3
2
1
0
Accumulated Runoff Area 1 - 1.49"
Accumulated Runoff Area 2 - 1.58"
Q = Discharge in Second-feet
4
3
2
1
0
Area 1
Area 2
12M
1 AM
2 A.M.
3 AM
4 AM
5 A M
6 A.M.
Spur, Texas
Sheet 6 of 18 Sheets


JUNE 24-26, 1938.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
12 N.
ACCUMULATED RUNOFF AREA 2 - 1.58"
ACCUMULATED RUNOFF AREA 1 - 1.49"
AREA 2
Q = Discharge in Second-feet
AREA 2
AREA 1
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
12 N.
SPUR, TEXAS
Sheet 7 of 14 Sheets



(1) Time (min.)	(2) Inc.t (min.)	(3) Acc.d (in.)	(4) Inc.d (in.)	(5) $i=\frac{60 Inc.d}{Inc.t}$ in./hr.	Time (min.)	Inc.t (min.)	Acc.d (in.)	Inc.d (in.)	$i=\frac{60 Inc.d}{Inc.t}$ in./hr.
1:35 PM	0	0	0	0	2:01 AM	5	1.56	.06	1.00
1:39 6/24	4	.21	.21	3.15	2:06	4	1.57	.01	.15
1:45	4	.31	.10	1.50	2:20	14	1.57	0	0
1:45	2	.38	.07	2.10	2:28	8	1.58	.01	.12
1:52	7	.40	.02	.17	2:56	30	1.60	.02	.04
1:54	2	.42	.02	.60	3:06	10	1.70	.10	.60
1:46	51	.43	.01	.01	3:16	10	1.80	.10	.60
1:55	9	.44	.01	.08	3:28	13	1.90	.10	.46
1:58	3	.47	.03	.90	3:50	22	1.97	.07	.19
4:00	2	.75	.28	8.38	3:55	5	1.99	.02	.24
4:02	2	.79	.04	1.20	4:06	10	2.00	.01	.06
4:17	15	.83	.04	.16	4:15	10	2.01	.01	.06
7:06	168	.88	.02	0	4:20	5	2.03	.02	.24
7:10	5	1.01	.18	1.92	4:30	10	2.04	.01	.06
7:50	40	1.01	0	0	5:00	30	2.22	.16	.26
8:10	20	1.06	.05	.09	5:35	35	2.37	.15	.26
8:25	15	1.06	.01	.04	5:45	10	2.42	.05	.30
8:40	15	1.08	.03	.12	5:55	10	2.46	.04	.24
8:50	10	1.10	.02	.12	6:30	35	2.57	.11	.19
9:05	15	1.11	.01	.04	6:50	20	2.62	.05	.15
9:35	30	1.12	.01	.02	7:05	15	2.68	.06	.24
9:45	10	1.13	.01	.06	7:10	5	2.70	.02	.24
10:00	15	1.13	0	0	8:00	50	2.70	0	0
10:15	15	1.15	.02	.08	8:40	40	2.71	.01	.01
10:25	10	1.16	.01	.06	9:00	20	2.74	.03	.09
10:30	5	1.18	.02	.24	11:05	125	2.75	.01	0
10:40	10	1.21	.03	.18	11:20	15	2.75	0	0
11:06	26	1.24	.03	.07	11:40	20	2.79	.04	.12
11:10	4	1.25	.01	.12	7:30 P	470	2.79	0	0
12:05 A	55	1.26	.01	.01	7:53	23	2.89	.10	.52
12:17	12	1.37	.11	.55	7:55	2	3.05	.04	1.20
12:25 6/25	8	1.38	.01	.07	8:05	10	3.21	.16	1.06
12:34	9	1.40	.02	.13	8:07	2	3.23	.02	.60
12:40	6	1.45	.06	.50	8:10	3	3.24	.01	.20
1:25	45	1.46	.01	.01	8:15	5	3.26	.02	.24
1:30	5	1.47	.01	.12	8:30	15	3.30	.04	.16
1:40	10	1.48	.01	.06	8:35	5	3.31	.01	.12
1:58	18	1.51	.03	.09	8:40	5	3.33	.02	.24
					9:10 PM	30	3.38	.06	.10

	AREA NO. 1	AREA NO. 2
Area (acres)	11.530	9.386
preceding rain (ins.)	.10	.10
date began	6-26-38	6-26-38
duration (hours)	30 mins.	30 mins.
Temperature (max.& Min.)	90-68	90-68
	85-68	85-68
	84-65	84-65
Soil (majortype)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percentage of area	100%	100%
Slope, average (percent)	.6 of 1%	.5
maximum	1.0%	.8
Cover, type	Cotton	Cotton
height,(ft.)	10 to 16 ins.	10 to 16 ins.
date last cultivated		
Spil Loss (tons per acre)		
Remarks:	Contoured rows.	Rows with slope.

SPUR, TEXAS

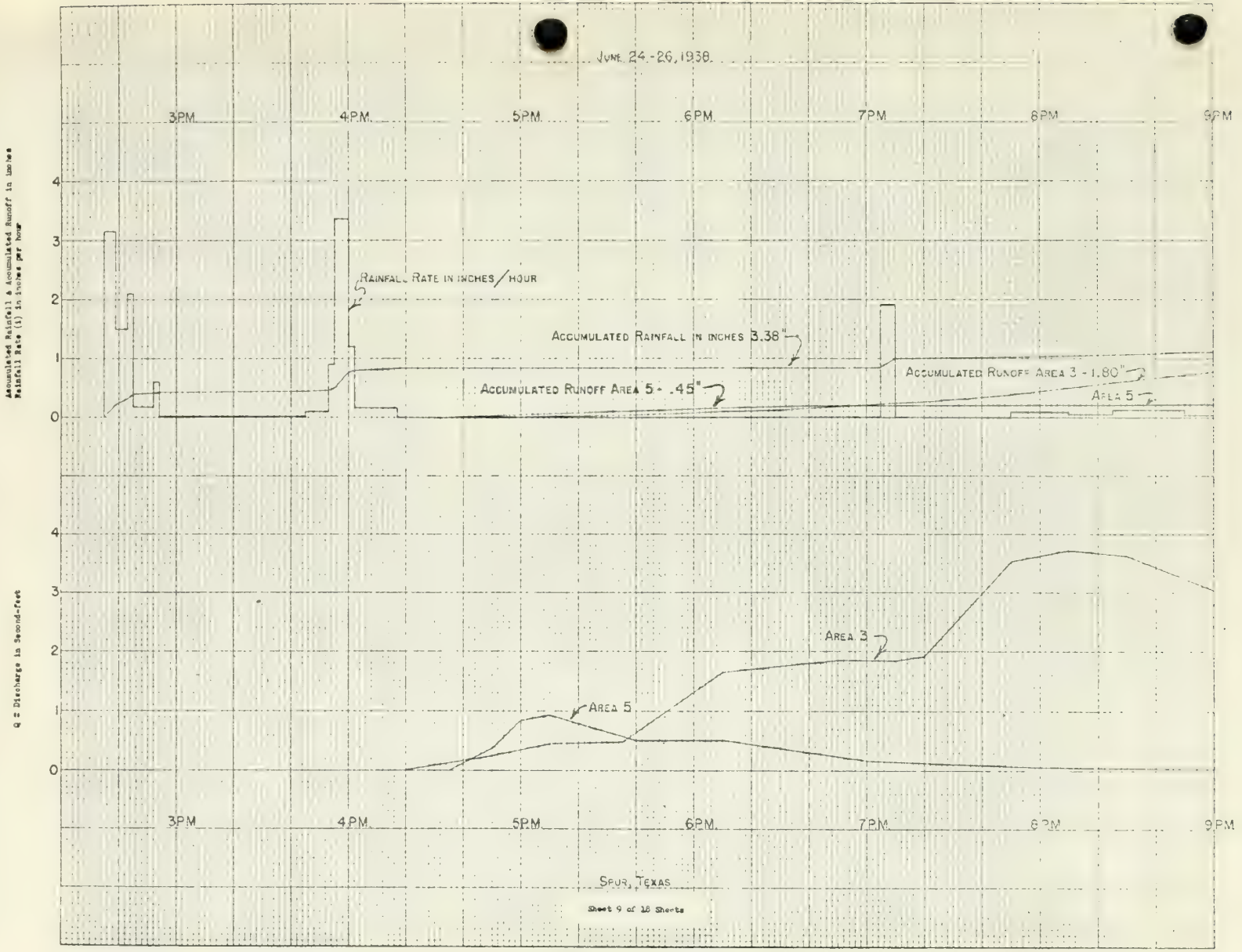
Sheet 8 of 18 Sheets

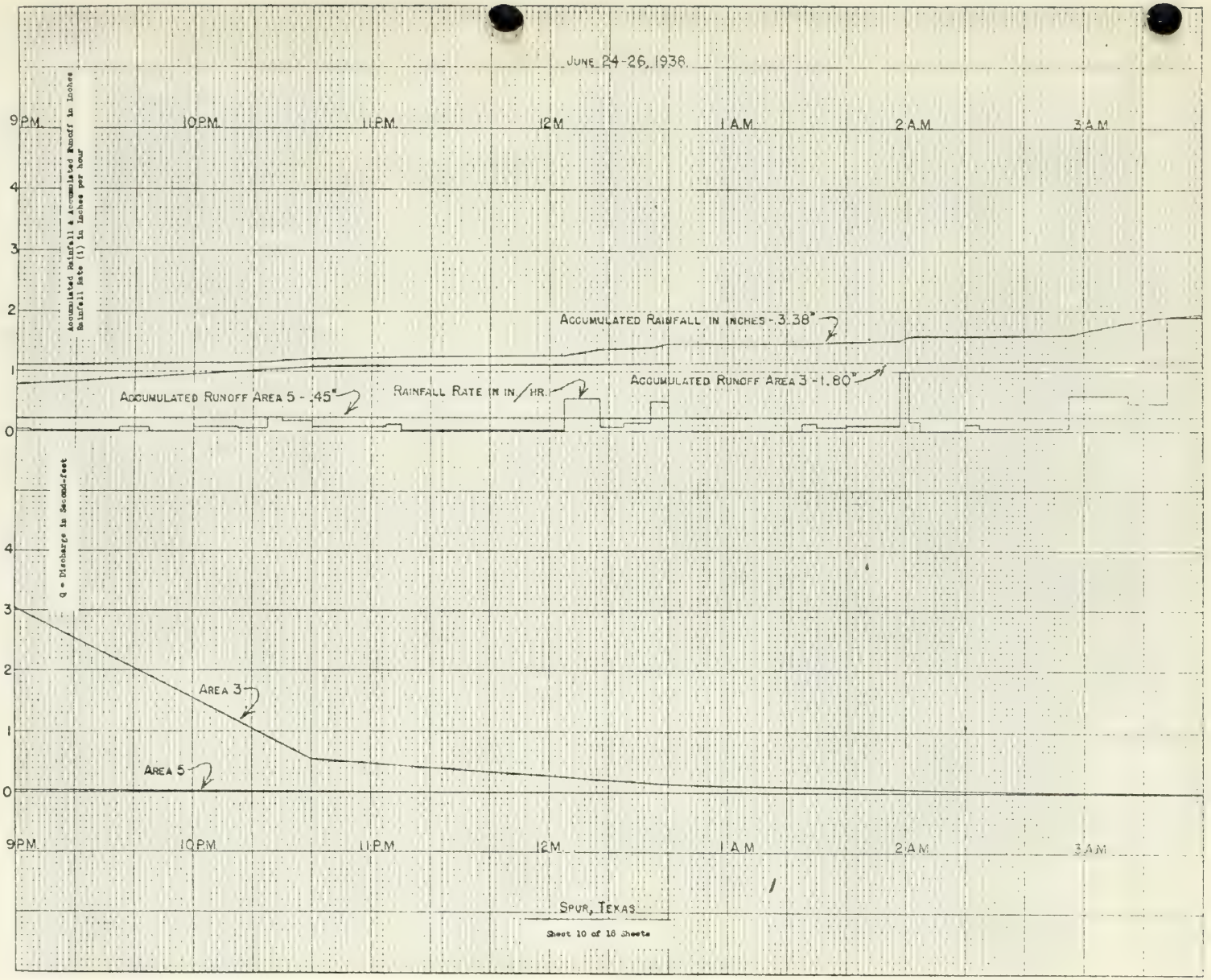
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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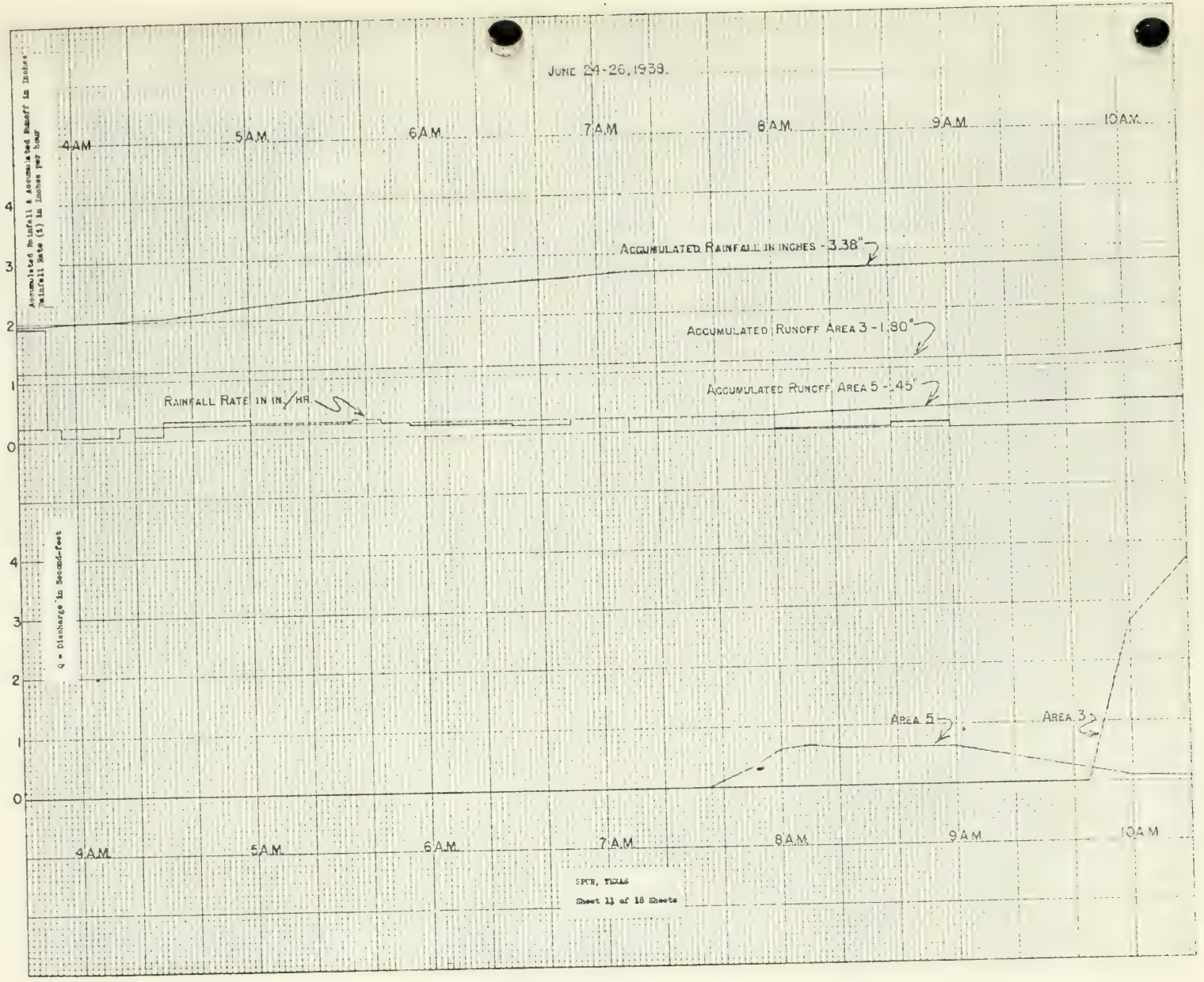
DIVISION OF RESEARCH
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

STORM NO. June 24-26, 1938

Plot by LRM date 9-28-39 checked by MHB date 9-28-39
Computations by MHB date 9-28-39 checked by LRM date 9-28-39

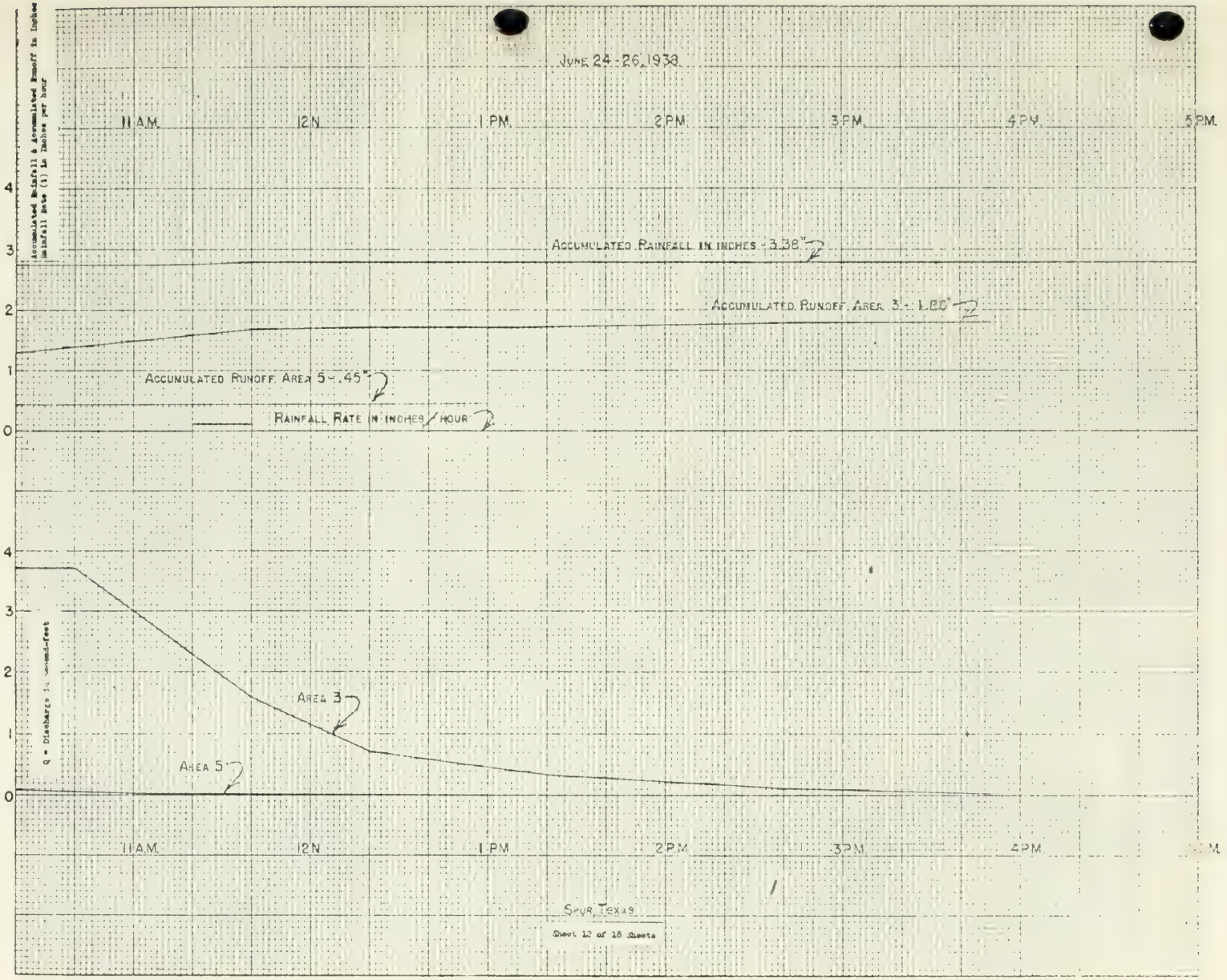

June 24-26, 1938
3PM
4PM
5PM
6PM
7PM
8PM
9PM
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per Hour
Rainfall Rate in Inches / Hour
Accumulated Rainfall in Inches 3.38"
Accumulated Runoff Area 3 - 1.80"
Accumulated Runoff Area 5 - .45"
Area 5
Area 3
Q = Discharge in Second-feet
Spur, Texas
Sheet 9 of 18 Sheets

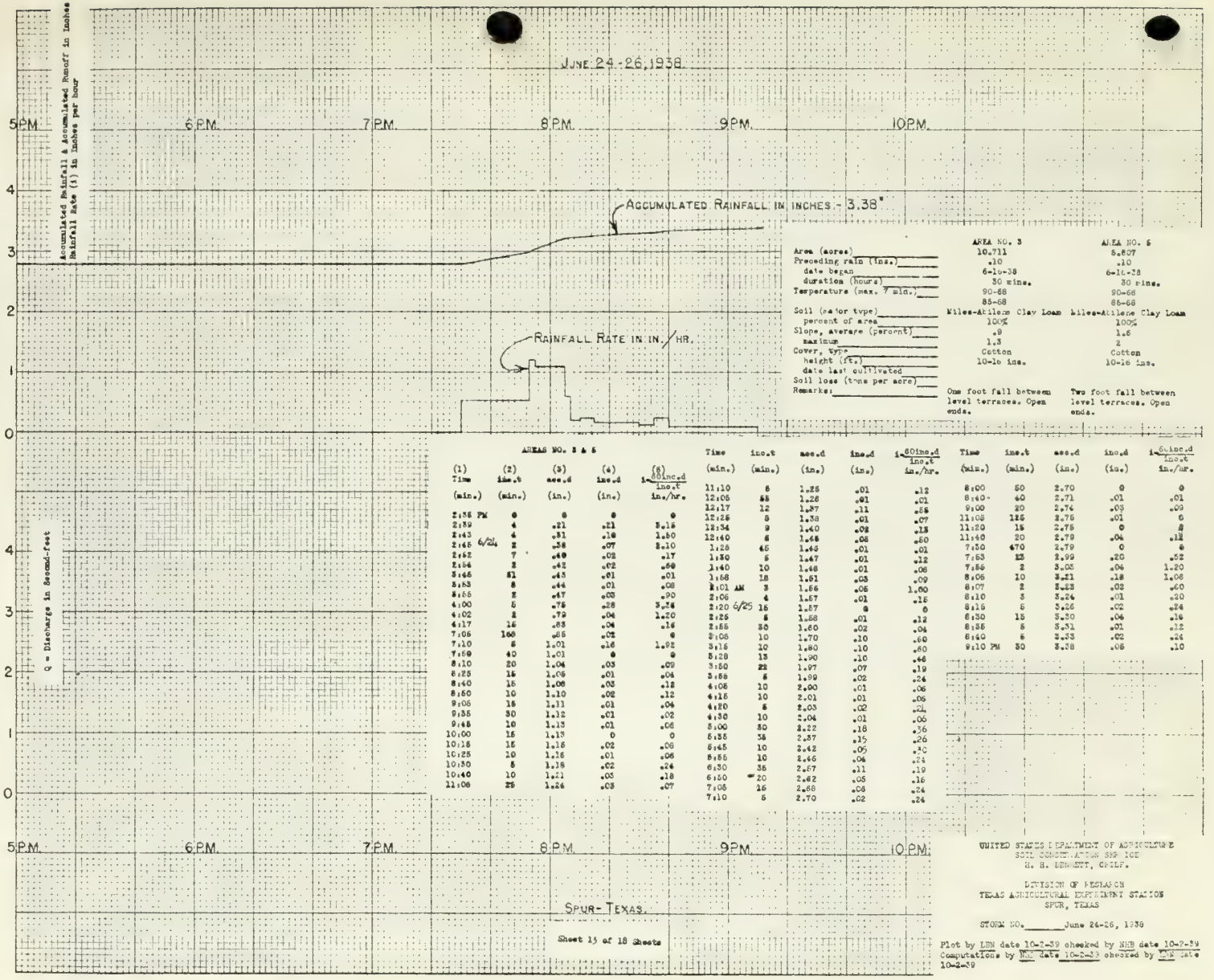

JUNE 24-26, 1936
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
9 P.M.
10 P.M.
11 P.M.
12 M.
1 A.M.
2 A.M.
3 A.M.
4
3
2
1
0
ACCUMULATED RAINFALL IN INCHES - 3.38"
ACCUMULATED RUNOFF AREA 5 - .45"
RAINFALL RATE IN IN./HR.
ACCUMULATED RUNOFF AREA 3 - 1.80"
Q - Discharge in Second-feet
4
3
2
1
0
AREA 3
AREA 5
9 P.M.
10 P.M.
11 P.M.
12 M.
1 A.M.
2 A.M.
3 A.M.
SPUR, TEXAS
Sheet 10 of 16 Sheets



SPUR, TEXAS

Sheet 11 of 18 Sheets


JUNE 24-26, 1938
11 A.M.
12 N.
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
ACCUMULATED RAINFALL IN INCHES = 3.38"
ACCUMULATED RUNOFF, AREA 3 = 1.80"
ACCUMULATED RUNOFF, AREA 5 = .45"
RAINFALL RATE IN INCHES / HOUR
AREA 3
AREA 5
SPUR, TEXAS
Sheet 12 of 18 Sheets



	AREA NO. 3	AREA NO. 5
Area (acres)	10.711	5.807
Preceding rain (ins.)	.10	.10
date began	6-16-38	6-16-38
duration (hours)	30 mins.	30 mins.
Temperature (max. / min.)	90-68	90-68
	85-68	85-68
Soil (major type)	Miles-Atlens Clay Loam	Miles-Atlens Clay Loam
percent of area	100%	100%
Slope, average (percent)	.9	1.6
maximum	1.3	2
Cover, type	Cotton	Cotton
height (ft.)	10-16 ins.	10-16 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces. Open ends.	Two foot fall between level terraces. Open ends.

AREAS NO. 3 & 5

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $i=\frac{60 inc.d}{inc.t}$ in./hr.
2:35 PM	0	0	0	0
2:39	4	.21	.21	3.15
2:43	4	.31	.10	1.50
2:45 6/24	2	.38	.07	2.10
2:52	7	.49	.02	.17
2:54	2	.42	.02	.60
3:45	51	.45	.01	.01
3:53	8	.44	.01	.08
3:55	2	.47	.03	.90
4:00	5	.75	.28	3.36
4:02	2	.79	.04	1.20
4:17	15	.83	.04	.16
7:05	168	.85	.02	0
7:10	5	1.01	.16	1.92
7:50	40	1.01	0	0
8:10	20	1.04	.03	.09
8:25	15	1.05	.01	.04
8:40	15	1.08	.03	.12
8:50	10	1.10	.02	.12
9:05	15	1.11	.01	.04
9:35	30	1.12	.01	.02
9:45	10	1.13	.01	.06
10:00	15	1.13	0	0
10:15	15	1.15	.02	.08
10:25	10	1.16	.01	.06
10:30	5	1.18	.02	.24
10:40	10	1.21	.03	.18
11:05	25	1.24	.03	.07
11:10	5	1.25	.01	.12
12:05	55	1.26	.01	.01
12:17	12	1.27	.11	.55
12:25	8	1.28	.01	.07
12:34	9	1.40	.02	.13
12:40	6	1.48	.08	.80
1:28	48	1.48	.01	.01
1:30	2	1.47	.01	.12
1:40	10	1.48	.01	.06
1:58	18	1.51	.03	.09
2:01 AM	3	1.56	.05	1.00
2:06	4	1.57	.01	.15
2:20 6/25	15	1.57	0	0
2:25	5	1.58	.01	.12
2:55	30	1.60	.02	.04
3:05	10	1.70	.10	.60
3:15	10	1.80	.10	.60
3:28	13	1.90	.10	.46
3:50	22	1.97	.07	.19
3:55	5	1.99	.02	.24
4:05	10	2.00	.01	.06
4:15	10	2.01	.01	.06
4:20	5	2.03	.02	.24
4:30	10	2.04	.01	.06
5:00	30	2.22	.18	.36
5:35	35	2.37	.15	.26
5:45	10	2.42	.05	.30
5:55	10	2.46	.04	.24
6:30	35	2.67	.11	.19
6:50	20	2.82	.08	.16
7:05	15	2.88	.06	.24
7:10	5	2.90	.02	.24
8:00	50	2.90	0	0
8:40	40	2.91	.01	.01
9:00	20	2.94	.03	.09
11:08	128	2.95	.01	0
11:20	12	2.95	0	0
11:40	20	2.99	.04	.12
7:30	470	2.99	0	0
7:53	23	2.99	.20	.52
7:56	3	3.03	.04	1.20
8:06	10	3.21	.18	1.08
8:07	1	3.23	.02	.60
8:10	3	3.24	.01	.20
8:16	6	3.26	.02	.24
8:30	15	3.30	.04	.16
8:35	5	3.31	.01	.12
8:40	5	3.33	.02	.24
9:10 PM	30	3.38	.05	.10

Spur - Texas.

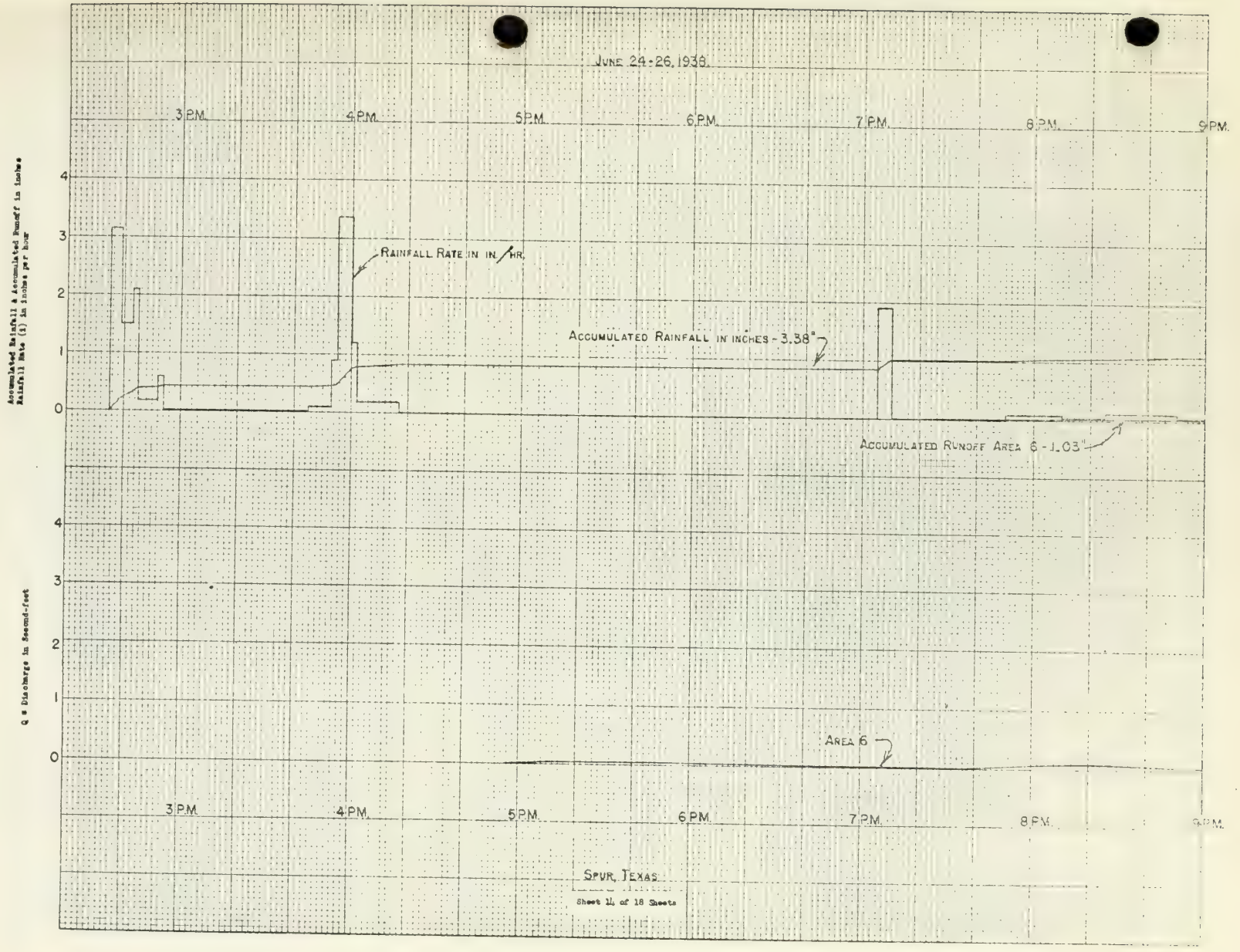
Sheet 15 of 18 Sheets

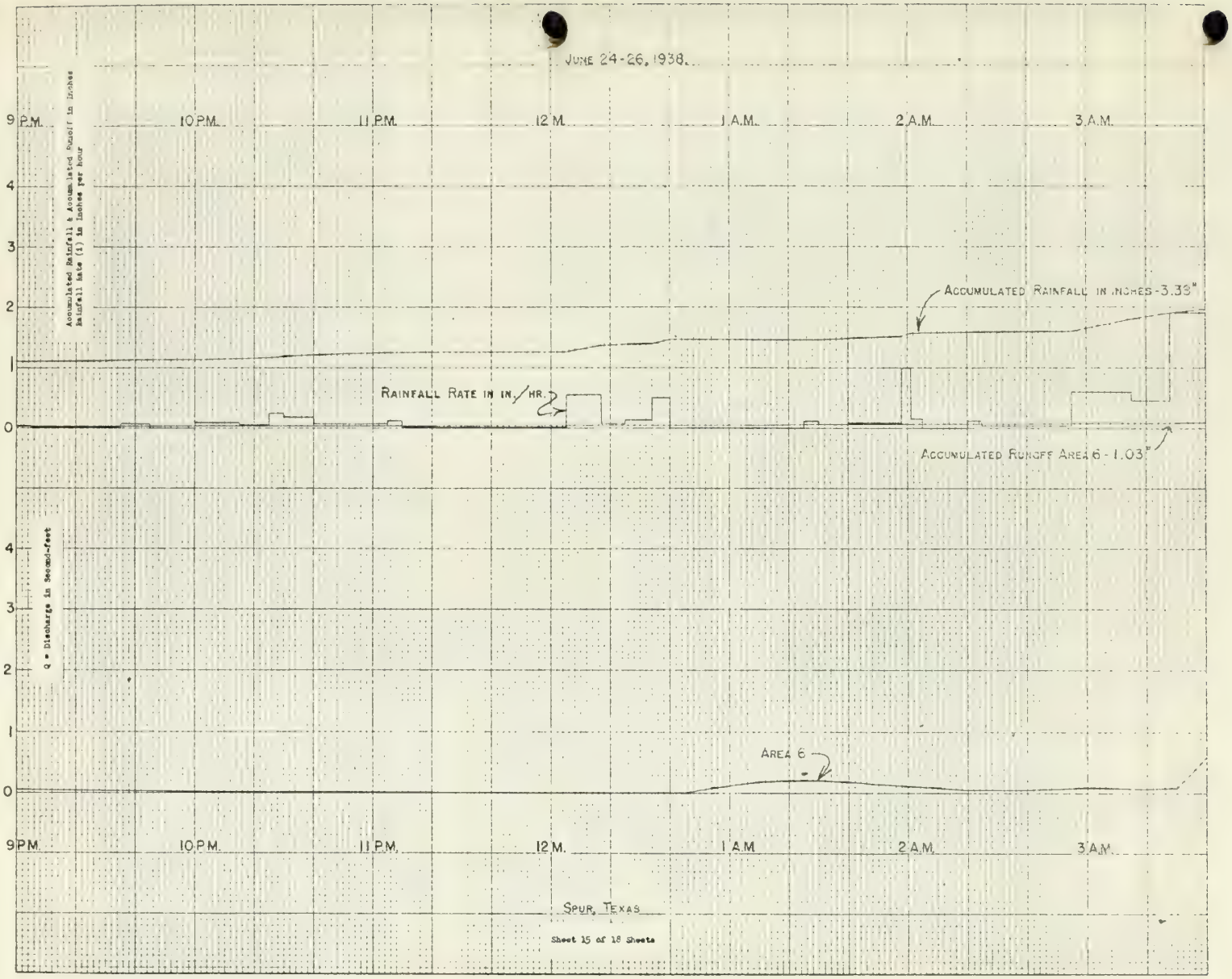
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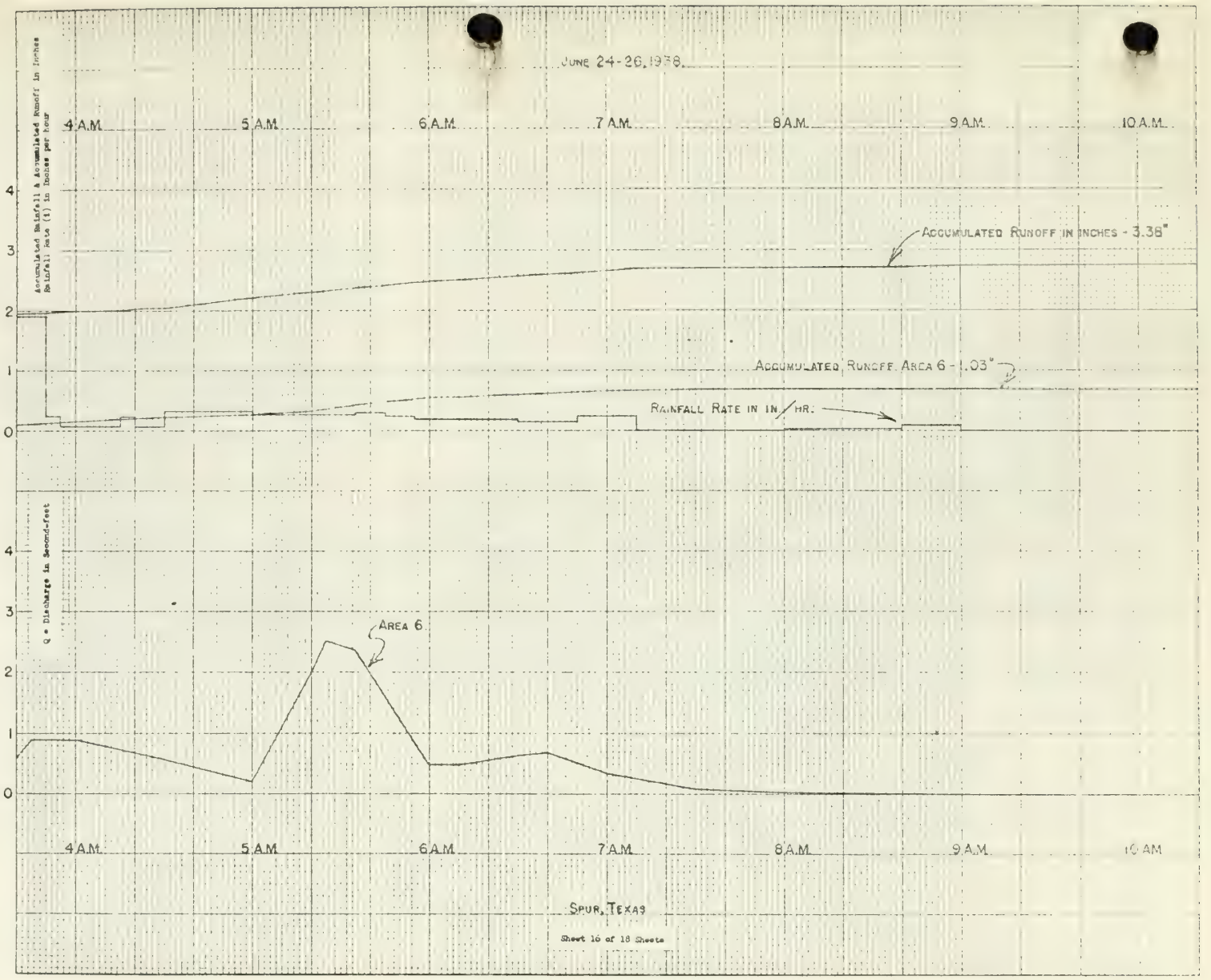
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TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

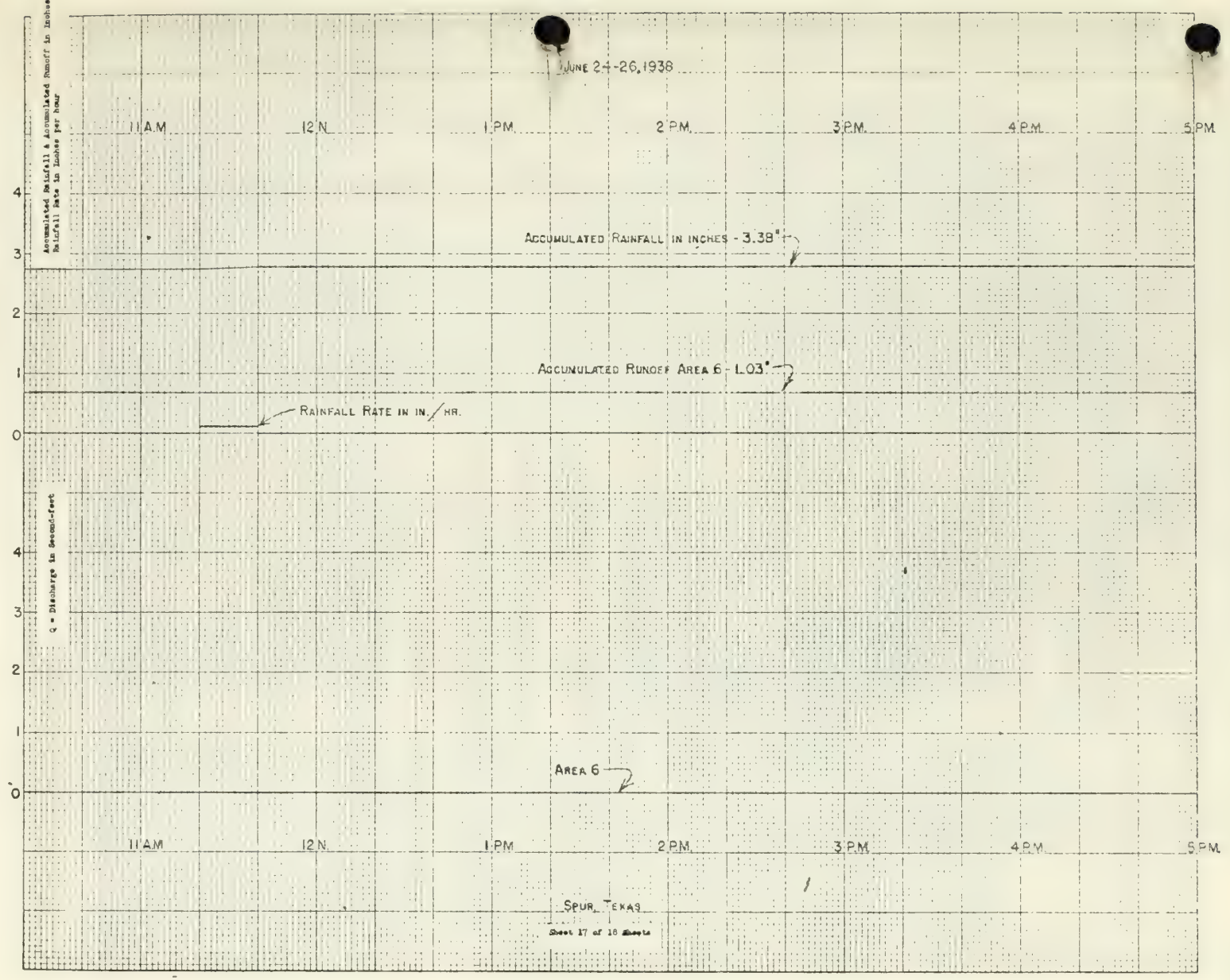
STORM NO. June 24-26, 1938

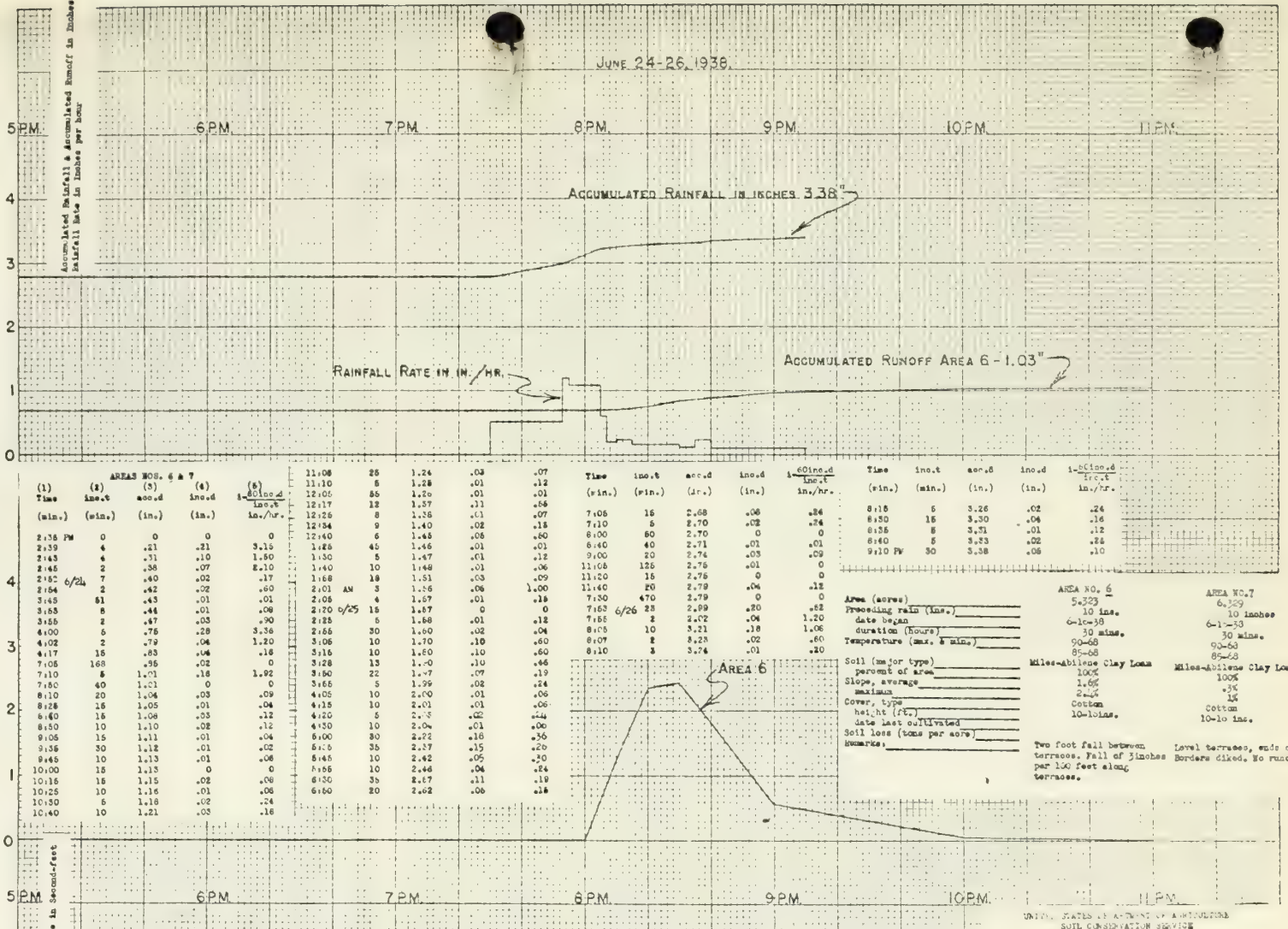
Plot by LBN date 10-2-39 checked by NHB date 10-2-39
Computations by NHB date 10-2-39 checked by LBN date 10-2-39


JUNE 24-26, 1938.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per Hour
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES - 3.38"
ACCUMULATED RUNOFF AREA 6 - 1.03"
Q = Discharge in Second-feet
AREA 6
SPUR, TEXAS
Sheet 11 of 18 Sheets


JUNE 24-26, 1938.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Q = Discharge in Second-feet
9 P.M.
10 P.M.
11 P.M.
12 M.
1 A.M.
2 A.M.
3 A.M.
ACCUMULATED RAINFALL IN INCHES - 3.33"
RAINFALL RATE IN IN./HR.
ACCUMULATED RUNOFF AREA 6 - 1.03"
AREA 6
SPUR, TEXAS
Sheet 15 of 18 Sheets


June 24-26, 1958.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in Inches per hour
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
Accumulated Runoff in Inches - 3.38"
Accumulated Runoff Area 6 - 1.03"
Rainfall Rate in In./Hr.
Q = Discharge in Second-feet
Area 6
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 AM
Spur, Texas
Sheet 16 of 18 Sheets


Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate in Inches per Hour
Q = Discharge in Second-feet
JUNE 24-26, 1938
11 A.M.
12 N.
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
ACCUMULATED RAINFALL IN INCHES - 3.38"
ACCUMULATED RUNOFF AREA 6 - 1.03"
RAINFALL RATE IN IN./HR.
AREA 6
SPUR, TEXAS
Sheet 17 of 18 Sheets



AREAS NOS. 6 & 7

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) i-60inc.d inc.t in./hr.
2:36 PM	0	0	0	0
2:39	4	.21	.21	3.15
2:43	4	.31	.10	1.50
2:45	2	.38	.07	2.10
2:82 6/24	7	.40	.02	.17
2:84	2	.42	.02	.60
3:45	81	.43	.01	.01
3:53	8	.44	.01	.08
3:55	2	.47	.03	.90
4:00	5	.75	.28	3.36
4:02	2	.79	.04	1.20
4:17	15	.83	.04	.16
7:05	168	.95	.02	0
7:10	5	1.01	.16	1.92
7:50	40	1.01	0	0
8:10	20	1.04	.03	.09
8:28	18	1.05	.01	.04
8:40	12	1.08	.03	.12
8:50	10	1.10	.02	.12
9:05	15	1.11	.01	.04
9:36	30	1.12	.01	.02
9:45	10	1.13	.01	.06
10:00	15	1.13	0	0
10:15	15	1.15	.02	.08
10:25	10	1.16	.01	.06
10:30	5	1.18	.02	.24
10:40	10	1.21	.03	.18
11:08	28	1.24	.03	.07
11:10	2	1.28	.01	.12
12:05	55	1.29	.01	.01
12:17	12	1.37	.11	.66
12:26	8	1.38	.01	.07
12:34	9	1.40	.02	.13
12:40	6	1.45	.05	.60
1:26	45	1.46	.01	.01
1:30	5	1.47	.01	.12
1:40	10	1.48	.01	.06
1:68	18	1.51	.03	.09
2:01 AM	3	1.56	.06	1.00
2:05	4	1.57	.01	.15
2:20 6/25	15	1.57	0	0
2:25	5	1.58	.01	.12
2:55	30	1.60	.02	.04
3:05	10	1.70	.10	.60
3:15	10	1.80	.10	.60
3:28	13	1.90	.10	.46
3:50	22	1.97	.07	.19
3:55	5	1.99	.02	.24
4:05	10	2.00	.01	.06
4:15	10	2.01	.01	.06
4:20	5	2.05	.02	.24
4:30	10	2.04	.01	.06
6:00	80	2.22	.18	.36
6:15	35	2.37	.15	.26
6:45	10	2.42	.05	.30
6:55	10	2.46	.04	.24
6:30	35	2.67	.11	.19
6:50	20	2.62	.06	.18

Time (min.)	inc.t (min.)	acc.d (in.)	inc.d (in.)	i-60inc.d inc.t in./hr.
7:05	15	2.68	.06	.24
7:10	5	2.70	.02	.24
8:00	50	2.70	0	0
6:40	40	2.71	.01	.01
9:00	20	2.74	.03	.09
11:08	128	2.75	.01	0
11:20	12	2.76	0	0
11:40	20	2.79	.04	.12
7:30	470	2.79	0	0
7:53 6/26	23	2.99	.20	.52
7:55	2	2.02	.04	1.20
8:05	10	3.21	.18	1.08
8:07	2	3.23	.02	.60
8:10	3	3.24	.01	.20

Time (min.)	inc.t (min.)	acc.d (in.)	inc.d (in.)	i-60inc.d inc.t in./hr.
8:18	5	3.26	.02	.24
8:30	15	3.30	.04	.16
8:35	5	3.31	.01	.12
8:40	5	3.33	.02	.24
9:10 PM	30	3.38	.05	.10

Area (acres)
Preceding rain (ins.)
 date began
 duration (hours)
Temperature (max. & min.)
Soil (major type)
 percent of area
Slope, average
 maximum
Cover, type
 height (ft.)
 date last cultivated
Soil loss (tons per acre)
Remarks:

	AREA NO. 6	AREA NO.7
Area (acres)	5.323	6.329
Preceding rain (ins.)	10 ins.	10 inches
date began	6-1c-38	6-1--38
duration (hours)	30 mins.	30 mins.
Temperature (max. & min.)	90-68	90-68
	85-68	85-68
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average	1.6%	.3%
maximum	2-4%	1%
Cover, type	Cotton	Cotton
height (ft.)	10-1o ins.	10-1o ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between terraces. Fall of 3inches per 100 feet along terraces.	Level terraces, ends closed Borders diked. No runoff

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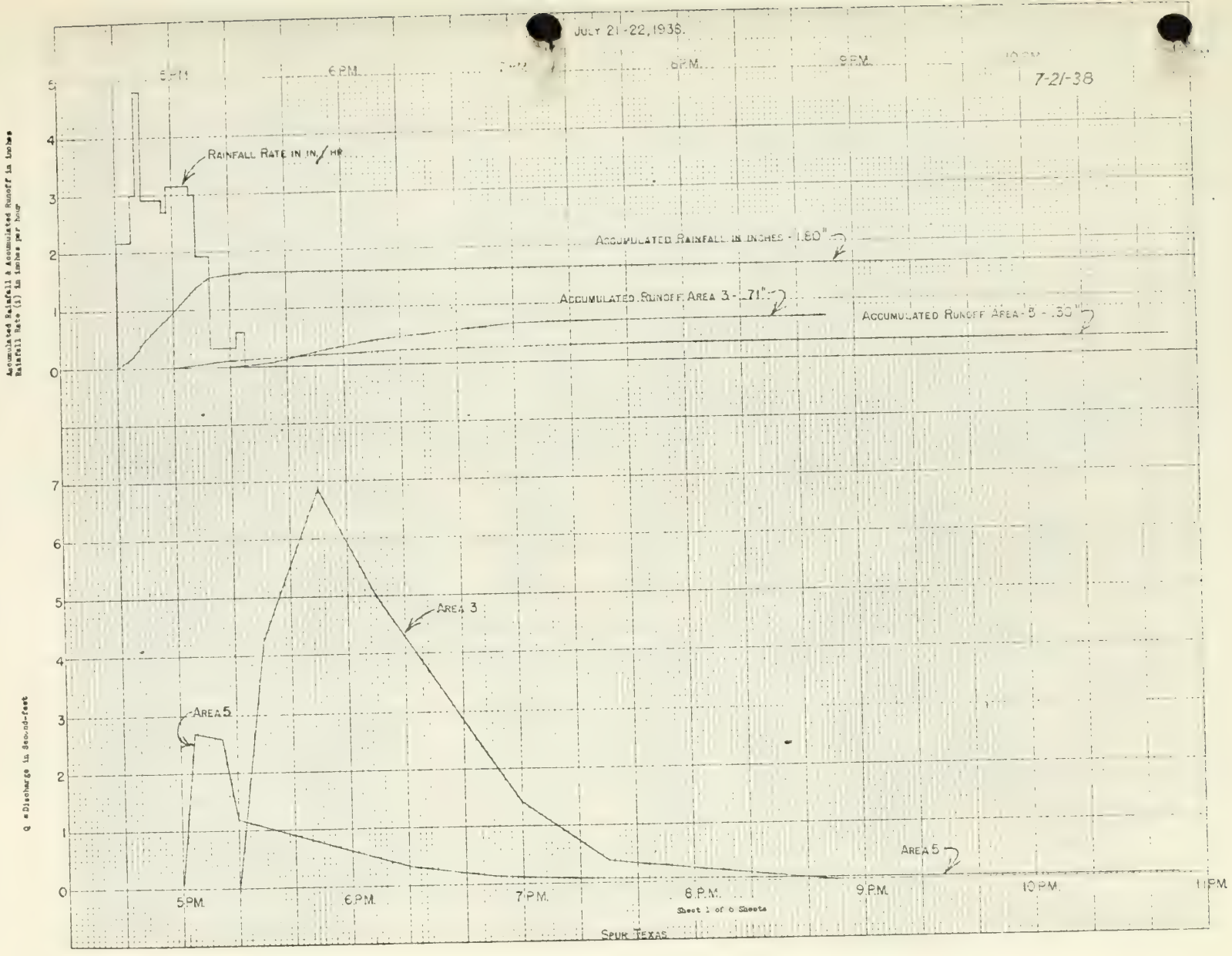
DIVISION OF [illegible]
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS

STORM NO. June 24-2o, 1-38.

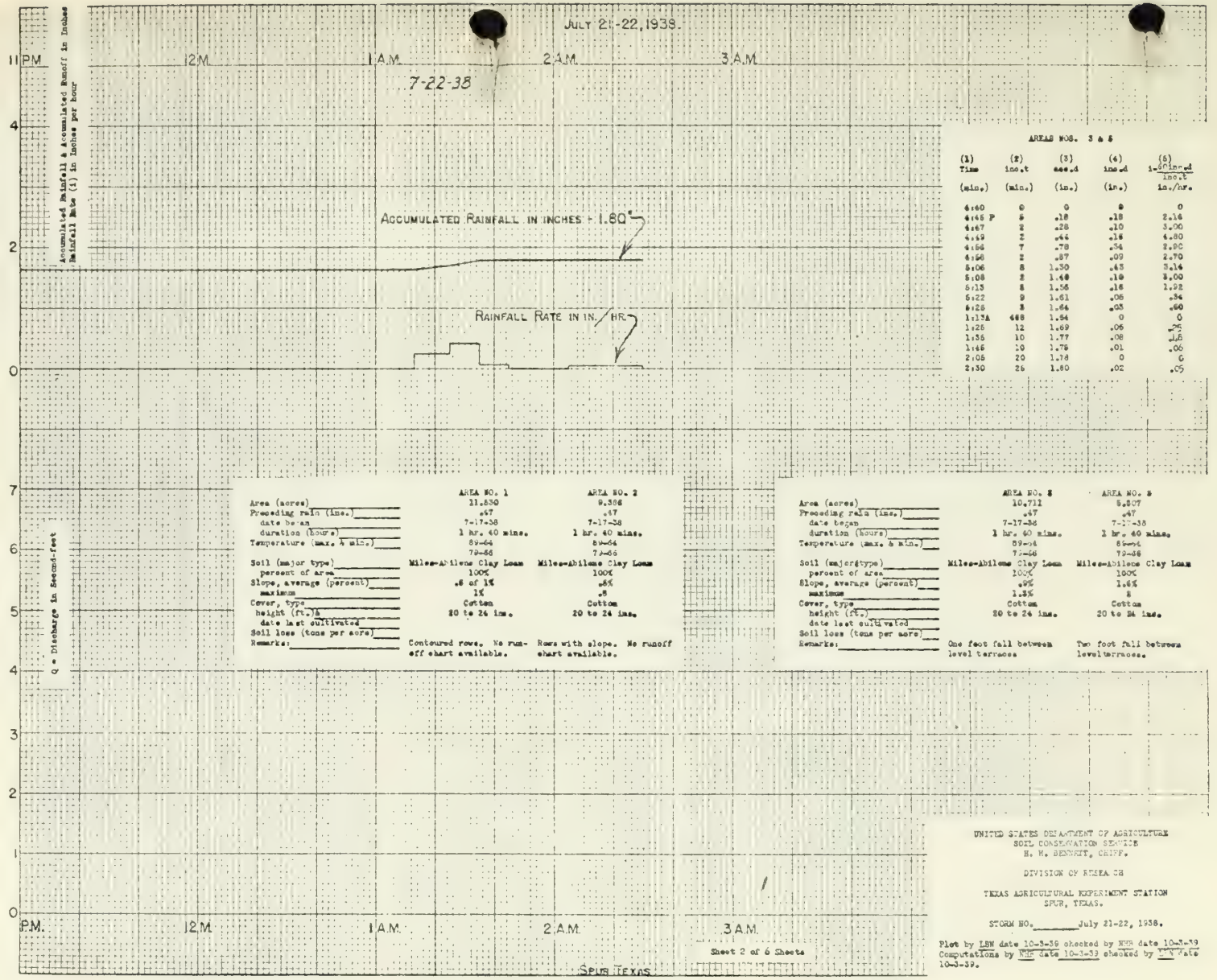
Plotted by LCM date 10-3-39 checked by NM date 10-3-39.
Computations by NM date 10-3-39 checked by LCM date 10-3-39.

SPUR, TEXAS

Sheet 16 of 18 Sheets


JULY 21-22, 1938.
7-21-38
5 P.M.
6 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES - 1.80"
ACCUMULATED RUNOFF AREA 3 - 1.71"
ACCUMULATED RUNOFF AREA 5 - .30"
AREA 3
AREA 5
AREA 5
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (I) in inches per hour
Q = Discharge in Second-feet
Sheet 1 of 6 Sheets
SPUR TEXAS

JULY 21-22, 1938.



AREAS NOS. 3 & 5

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) i=60inc.d/inc.t in./hr.
4:40	0	0	0	0
4:45 P	5	.18	.18	2.16
4:47	2	.28	.10	3.00
4:49	2	.44	.16	4.80
4:56	7	.78	.34	2.92
4:58	2	.87	.09	2.70
5:06	8	1.30	.43	3.14
5:08	2	1.48	.18	5.00
5:15	5	1.56	.16	1.92
5:22	9	1.61	.05	.34
5:28	3	1.64	.03	.60
1:15A	468	1.64	0	0
1:26	12	1.69	.06	.25
1:36	10	1.77	.08	.48
1:46	10	1.78	.01	.06
2:06	20	1.78	0	0
2:30	24	1.80	.02	.05

	AREA NO. 1	AREA NO. 2
Area (acres)	11.830	9.386
Preceding rain (ins.)	.47	.47
date began	7-17-38	7-17-38
duration (hours)	1 hr. 40 mins.	1 hr. 40 mins.
Temperature (max. & min.)	89-64	89-64
	79-58	79-66
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	.8 of 1%	.8%
maximum	1%	.8
Cover, type	Cotton	Cotton
height (ft.)	20 to 24 ins.	20 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Contoured rows. No run-off chart available.	Rows with slope. No runoff chart available.

	AREA NO. 4	AREA NO. 5
Area (acres)	10.711	8.807
Preceding rain (ins.)	.47	.47
date began	7-17-38	7-17-38
duration (hours)	1 hr. 40 mins.	1 hr. 40 mins.
Temperature (max. & min.)	89-64	89-64
	79-58	79-66
Soil (major type)	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	.9%	1.6%
maximum	1.3%	2
Cover, type	Cotton	Cotton
height (ft.)	20 to 24 ins.	20 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	One foot fall between level terraces	Two foot fall between level terraces.

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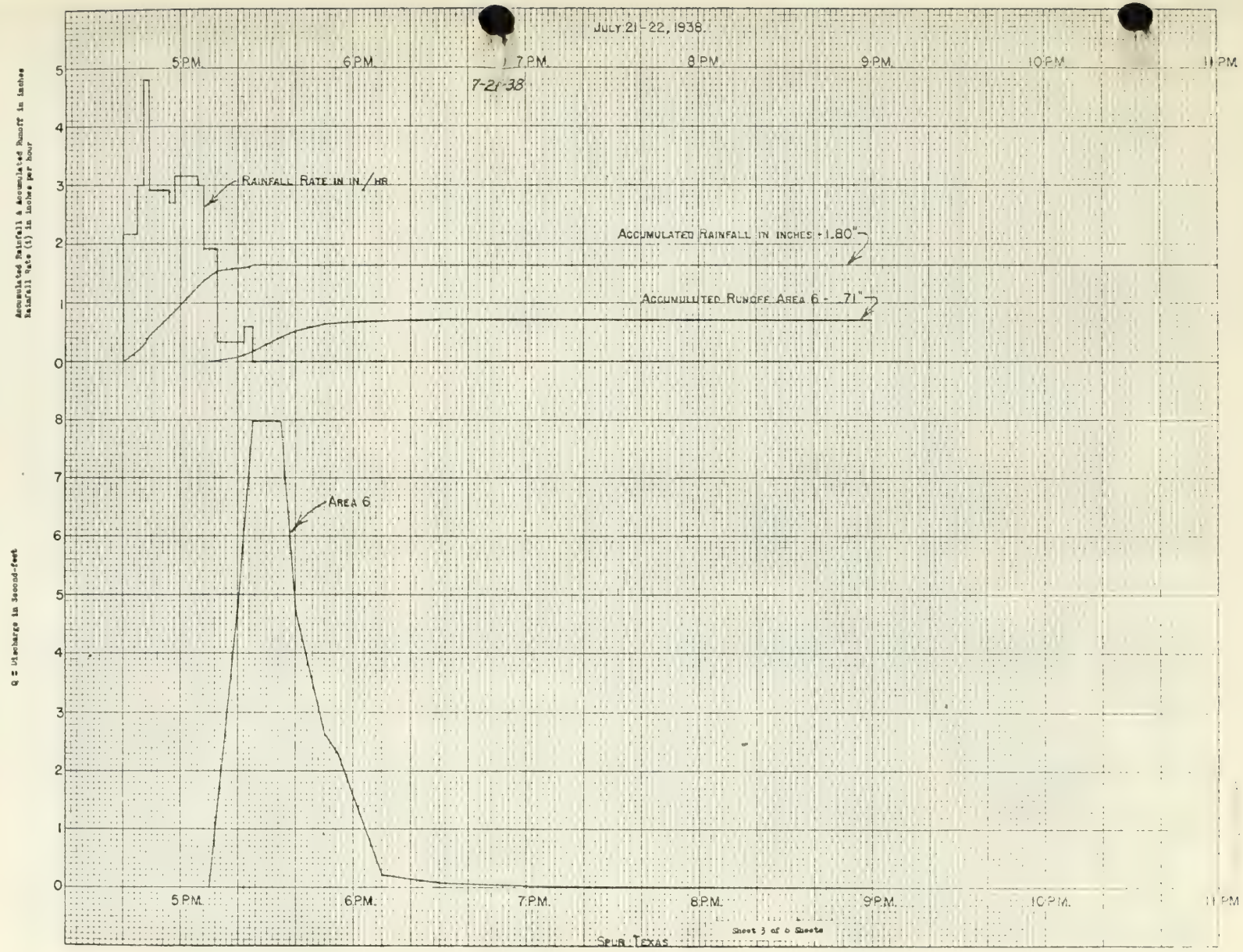
TEXAS AGRICULTURAL EXPERIMENT STATION
SPUR, TEXAS.

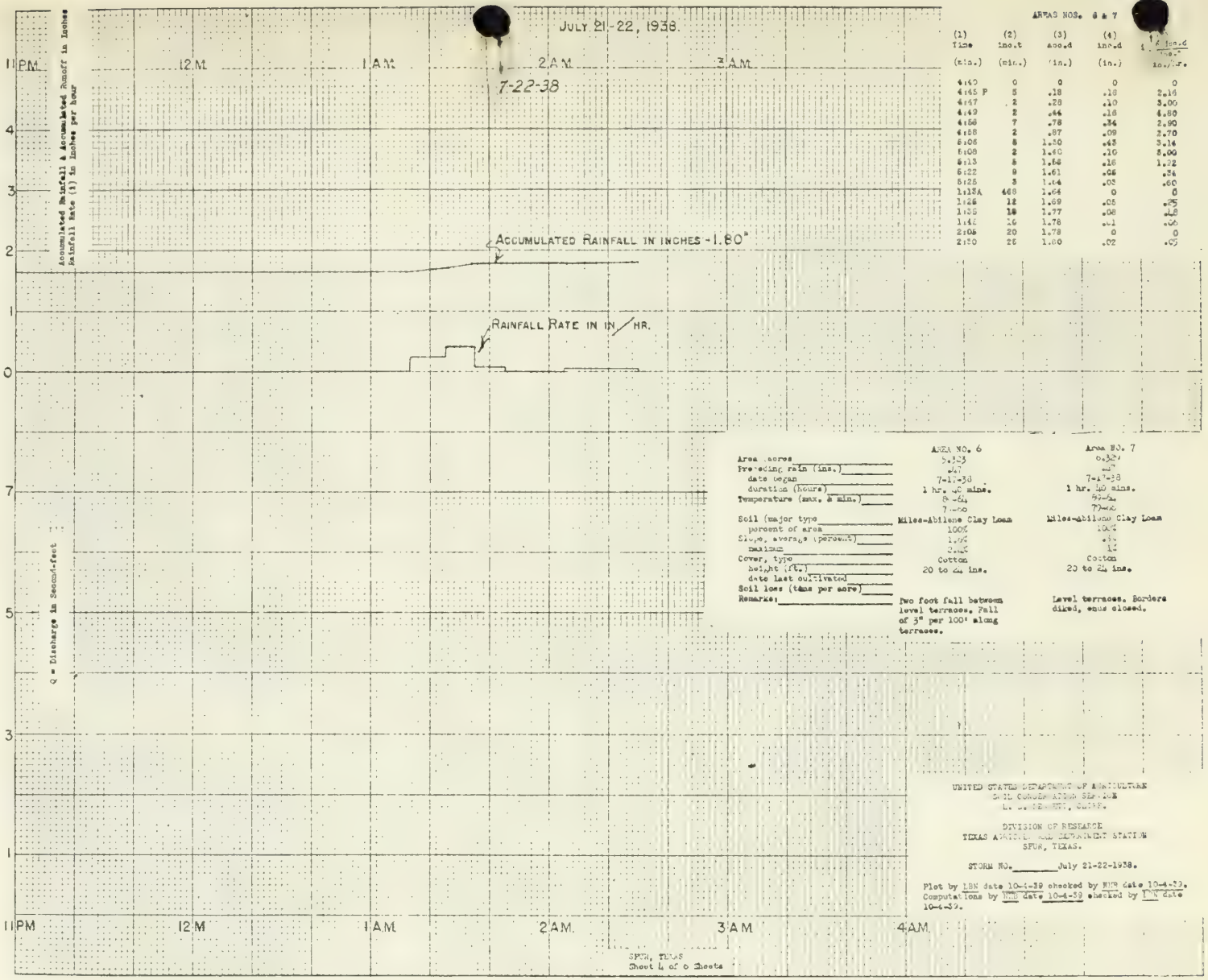
STORM NO. July 21-22, 1938.

Plot by LBM date 10-3-39 checked by MHR date 10-3-39
Computations by MHR date 10-3-39 checked by LBM date 10-3-39.

Sheet 2 of 6 Sheets

SPUR TEXAS


JULY 21-22, 1938.
7-21-38
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per hour
Q = Discharge in Second-feet
RAINFALL RATE IN IN./HR.
ACCUMULATED RAINFALL IN INCHES = 1.80"
ACCUMULATED RUNOFF AREA 6 = .71"
AREA 6
0
1
2
3
4
5
6
7
8
SPUR, TEXAS
Sheet 3 of 6 Sheets



AREAS NOS. 6 & 7

(1) Time	(2) ins.t	(3) acc.d	(4) ins.d	$\frac{\Delta \text{ ins.d}}{\Delta \text{ t}}$
(min.)	(min.)	(in.)	(in.)	in./hr.
4:40	0	0	0	0
4:45 P	5	.18	.18	2.16
4:47	2	.28	.10	3.00
4:49	2	.44	.16	4.80
4:56	7	.78	.34	2.90
4:58	2	.87	.09	2.70
5:05	5	1.20	.43	5.16
5:08	3	1.40	.16	3.00
5:13	5	1.56	.16	1.92
5:22	9	1.61	.05	.34
5:25	3	1.64	.03	.60
1:12A	468	1.64	0	0
1:26	12	1.69	.05	.25
1:35	18	1.77	.08	.18
1:42	16	1.78	.01	.06
2:06	20	1.78	0	0
2:30	24	1.80	.02	.05

	AREA NO. 6	Area NO. 7
Area acres	5.303	0.327
Preceding rain (ins.)	0.01	0.0
date began	7-17-38	7-17-38
duration (hours)	1 hr. 40 mins.	1 hr. 40 mins.
Temperature (max. & min.)	84-64	84-64
	70-60	70-60
Soil (major type	Miles-Abilene Clay Loam	Miles-Abilene Clay Loam
percent of area	100%	100%
Slope, average (percent)	1.0%	1.0%
maximum	3.0%	3.0%
Cover, type	Cotton	Cotton
height (ft.)	20 to 24 ins.	20 to 24 ins.
date last cultivated		
Soil loss (tons per acre)		
Remarks:	Two foot fall between level terraces. Fall of 3" per 100' along terraces.	Level terraces. Borders diked, ends closed.

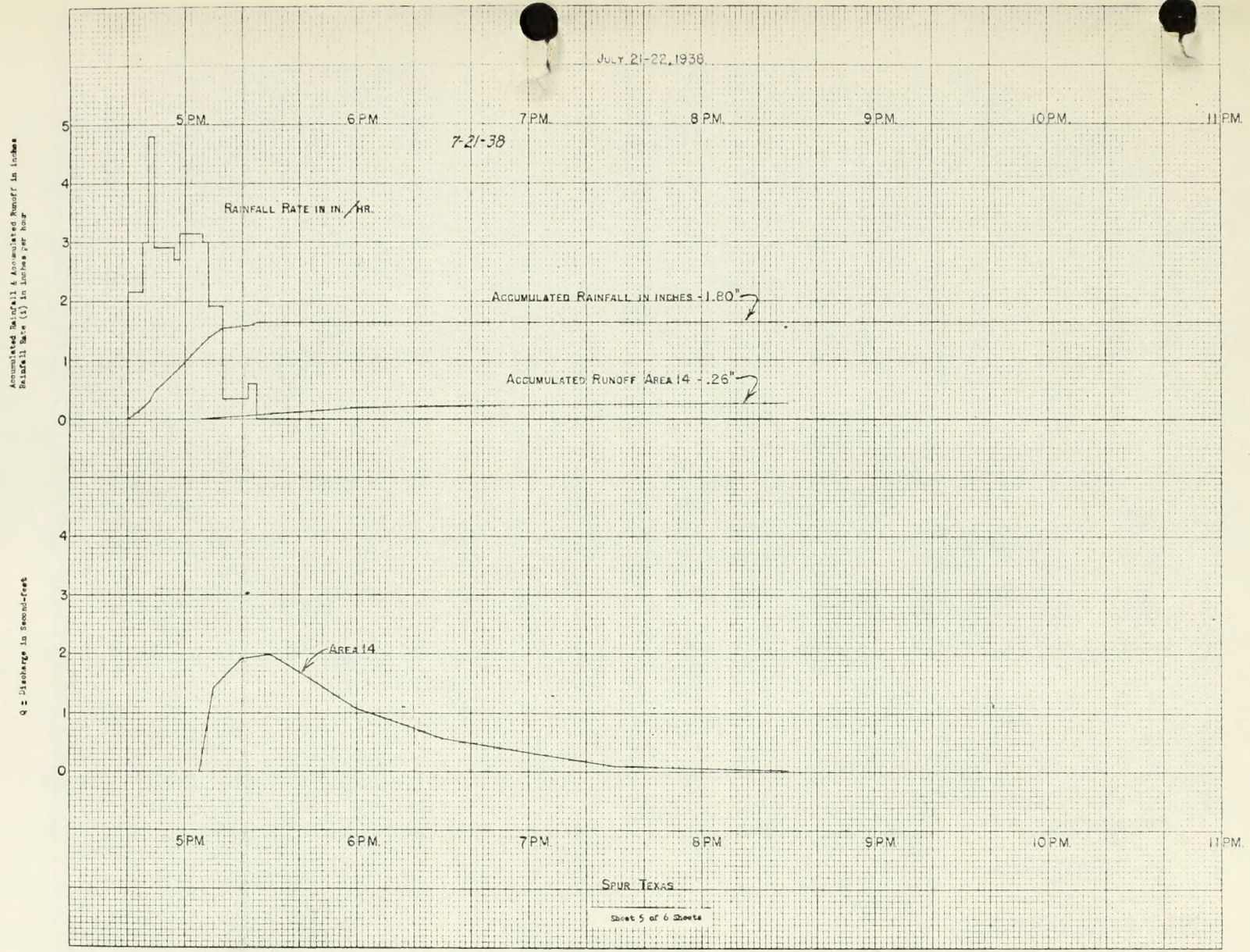
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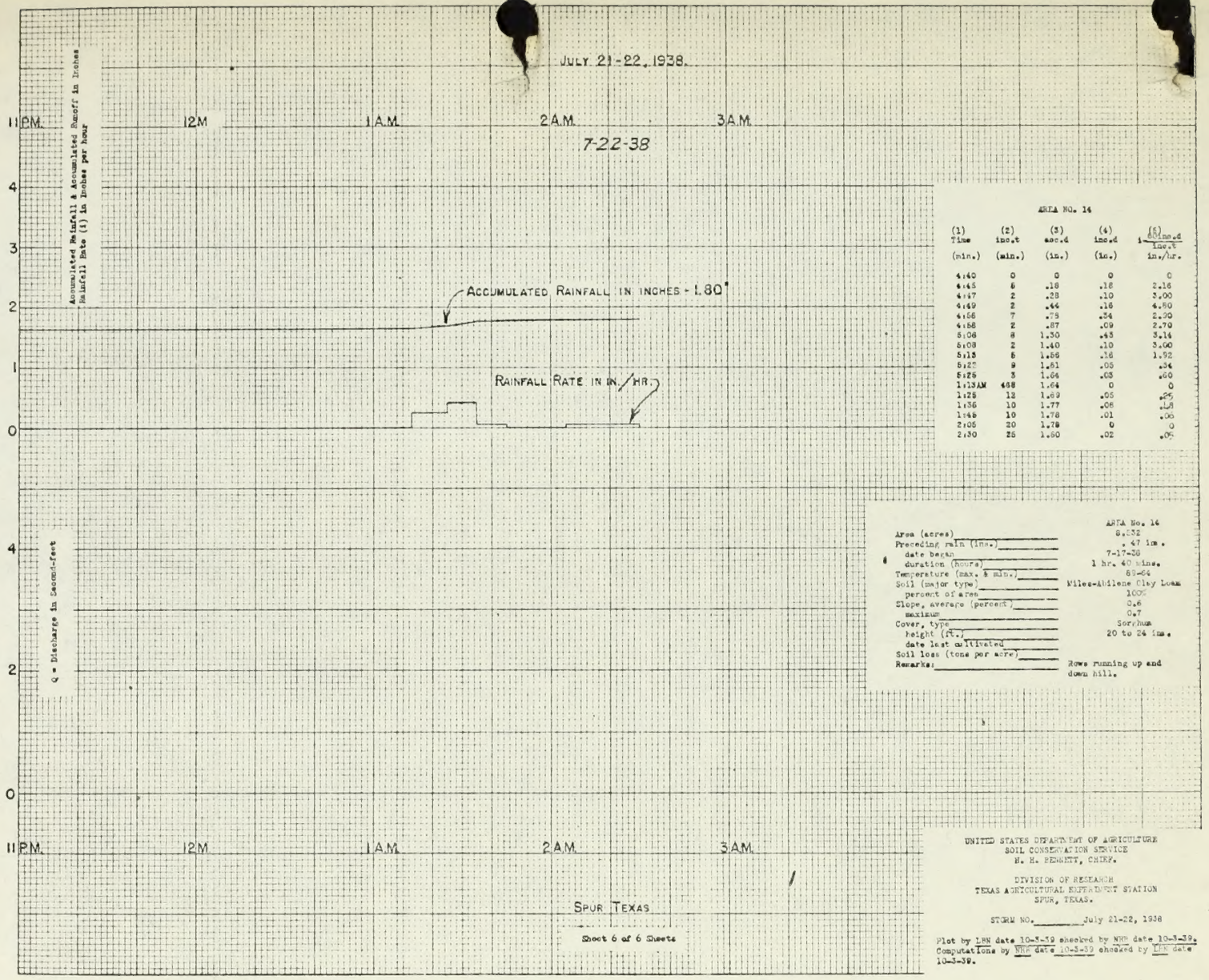
STORM NO. July 21-22-1938.

Plot by LBN date 10-4-39 checked by HHR date 10-4-39.
Computations by HHR date 10-4-39 checked by LBN date 10-4-39.

SPUR, TEXAS
Sheet 4 of 6 Sheets


July 21-22, 1938
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
7-21-38
Rainfall Rate in In./Hr.
Accumulated Rainfall in Inches - 1.80"
Accumulated Runoff Area 14 - .26"
Area 14
Accumulated Rainfall & Accumulated Runoff in Inches
Rainfall Rate (i) in Inches per Hour
Q = Discharge in Second-feet
Spur, Texas
Sheet 5 of 6 Sheets

JULY 21-22, 1938.



AREA NO. 14

(1) Time (min.)	(2) inc.t (min.)	(3) acc.d (in.)	(4) inc.d (in.)	(5) $\frac{60 \text{ inc.d}}{\text{inc.t}}$ in./hr.
4:40	0	0	0	0
4:45	5	.18	.18	2.16
4:47	2	.28	.10	3.00
4:49	2	.44	.16	4.80
4:56	7	.78	.34	2.90
4:58	2	.87	.09	2.70
5:06	8	1.30	.43	3.14
5:08	2	1.40	.10	3.00
5:13	5	1.56	.16	1.92
5:22	9	1.61	.05	.34
5:25	3	1.64	.03	.60
1:13AM	468	1.64	0	0
1:25	12	1.69	.05	.25
1:36	10	1.77	.08	.48
1:46	10	1.78	.01	.06
2:05	20	1.78	0	0
2:30	25	1.80	.02	.05

	AREA No. 14
Area (acres)	8.32
Preceding rain (ins.)	.47 ins.
date began	7-17-38
duration (hours)	1 hr. 40 mins.
Temperature (max. & min.)	82-64
Soil (major type)	Miles-Abilene Clay Loam
percent of area	100%
Slope, average (percent)	0.6
maximum	0.7
Cover, type	Sorghum
Height (ft.)	20 to 24 ins.
date last cultivated	
Soil loss (tons per acre)	
Remarks:	Rows running up and down hill.

UNITED STATES DEPARTMENT OF AGRICULTURE
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TEXAS AGRICULTURAL EXPERIMENT STATION
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STORM NO. July 21-22, 1938

Plot by LRN date 10-3-39 checked by WRR date 10-3-39.
Computations by WRR date 10-3-39 checked by LRN date 10-3-39.

SPUR TEXAS

Sheet 6 of 6 Sheets